STAFF REPORT VOLUME II

REVISION OF THE CLEAN WATER ACT SECTION 303(d) LIST OF WATER QUALITY LIMITED SEGMENTS

WATER BODY FACT SHEETS SUPPORTING THE SECTION 303(d) RECOMMENDATIONS



DIVISION OF WATER QUALITY

STATE WATER RESOURCES CONTROL BOARD

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY



STATE WATER RESOURCES CONTROL BOARD DIVISION OF WATER QUALITY

STAFF REPORT

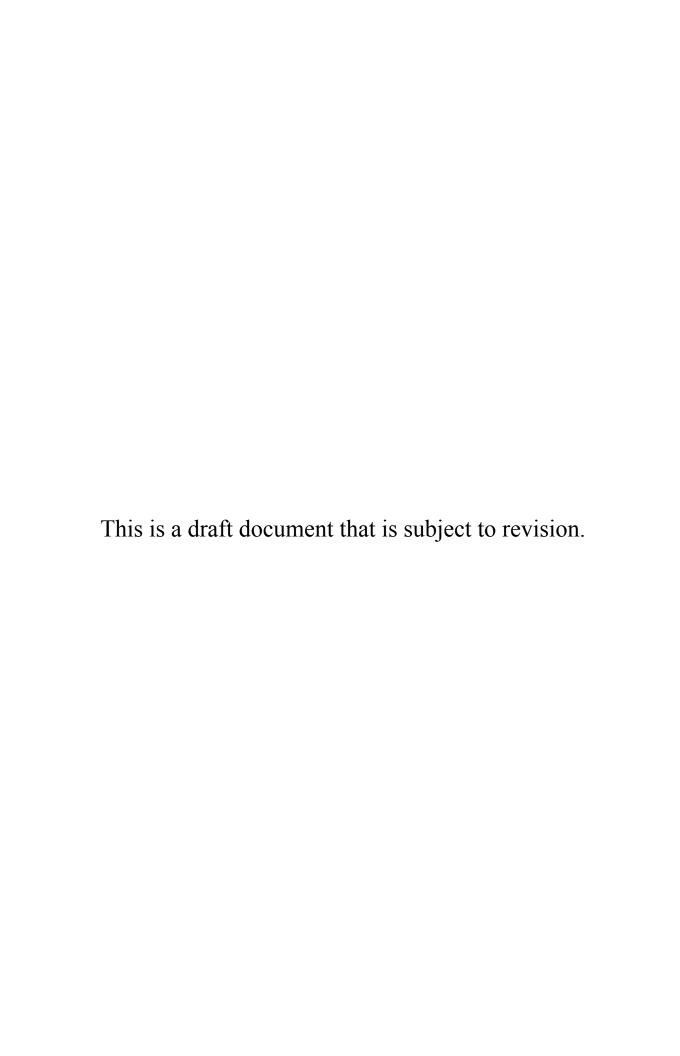
REVISION OF THE CLEAN WATER ACT SECTION 303(d) LIST OF WATER QUALITY LIMITED SEGMENTS

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VOLUME II



January 2003 FINAL



Staff Report by the Division of Water Quality State Water Resources Control Board

REVISION OF THE CLEAN WATER ACT SECTION 303(d) LIST OF WATER QUALITY LIMITED SEGMENTS

Water Body Fact Sheets Supporting the Section 303(d) Recommendations

Volume II

This Staff Report supporting the revision of the Clean Water Act Section 303(d) list of water quality limited segments has four parts: (1) Volume I contains the listing methodology and a summary of the proposed additions, deletions, changes, and priorities; (2) Volume II contains summaries of the proposals for the North Coast, San Francisco Bay, Central Coast, and Los Angeles Regional Water Quality Control Boards (RWQCBs); (3) Volume III contains summaries of the proposals for the Central Valley, Lahontan, Colorado River Basin, Santa Ana, and San Diego RWQCBs, and (4) Volume IV contains the responses to comments received. Each proposal is presented in a water body fact sheet.

This document is Volume II of the Staff Report. Proposed changes to the Section 303(d) list are included for the following RWQCBs:

- North Coast (Region 1)
- San Francisco Bay (Region 2)
- Central Coast (Region 3)
- Los Angeles (Region 4)

Each RWQCB section in this volume is divided into the following parts:

- Water Body Fact Sheets for each proposal
- Reference list of the data and information used

All data and information submitted after May 15, 2001 is included in the submittals presented in Volume IV.



Regional Water Quality Control Board NORTH COAST REGION (1)



SECTION 303 (d) LIST PROPOSALS



Region 1: Albion River Sedimentation/Siltation

Water Body Albion River

Stressor/Media/Beneficial Use Sedimentation-Siltation/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

N/A

Linkage between measurement endpoint and benefical use or standard

N/A

Utility of measure for judging if standards or uses are not attained

N/A

Water Body-specific Information

USEPA has approved a TMDL for this water body-pollutant combination.

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant N/A

 $\begin{tabular}{ll} \textbf{Alternative Enforceable Program} \\ \textbf{N/A} \end{tabular}$

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the TMDLs Completed List because a plan to implement the TMDL has not been adopted or approved even

though the TMDL has been approved by USEPA.

Region 1: Big River Sedimentation/Siltation

Water Body

 Stressor/Media/Beneficial Use
 Sedimentation-Siltation/Water/Aquatic Life

 Data quality assessment. Extent to which data quality requirements met.
 N/A

 Linkage between measurement endpoint and benefical use or standard
 N/A

 Utility of measure for judging if standards or uses are not attained
 N/A

 Water Body-specific Information
 USEPA has approved a TMDL for this water body-pollutant combination.

 Data used to assess water quality
 N/A

Big River

Spatial representationN/ATemporal representationN/AData typeN/A

Use of standard method N/A

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program N/A

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the TMDLs Completed List because a plan to implement the TMDL has not been adopted or approved even though the TMDL has been approved by USEPA.

Region 1: Big River

Temperature

Water Body Big River

Stressor/Media/Beneficial Use Temperature/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Data with a QA/QC were given the greatest weight.

Linkage between measurement endpoint and benefical use or standard

MWAT linked to Aquatic Life Beneficial Use.

Utility of measure for judging if standards or uses are not attained

Basin Plan Water Quality Objectives/Historic Temperature Ranges/Sullivan 2000 Published Temperature Thresholds-Peer Reviewed Literature.

Water Body-specific Information

Data = 4 years (96-2000), Data measured at site, Species or indicator present at Site, Environmental conditions considered at site.

Data used to assess water quality

Data show that 29 out of 34 locations exceed the criterion of Sullivan, 2000= 14.8 degrees. But 23 locations had MWAT values exceeded for sublethal effects (10 and 20% reduced growth). None of the sites exceeded the 24 degree lethal criteria. 19 locations MWAT values exceeded the MWAT criteria (17 degrees) for sub-lethal effects (10% reduced growth). MWAT values at 4 locations exceeded the available MWAT criteria for sub-lethal effects (20% reduced growth).

Spatial representation

34 Locations over the 200 sq. mile area in the Big River watershed.

Temporal representation

Data was collected over 4 years (96-2000), with at least two years of record

at 15 locations.

Data type

Numerical data.

Use of standard method

Unknown.

Potential Source(s) of Pollutant

Streambank modification/destabilization, Removal of riparian vegetation, Habitat modification, Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation

Watch List: Based on a letter sent from the NCRWQCB on January 31, 2002 the RWQCB feels there is insufficient information existing to list. The Maximum Weekly Average Temperature (MWAT) and the Maximum Weekly Maximum Temperature (MWMT) values for the Big River Watershed exceed the criteria values (Sullivan, 2000 Published Temperature Thresholds -Peer Reviewed Literature), that were used to translate the narrative Water Quality Objective for Region 1 for Temperature.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

Region 1: Big River Temperature

This conclusion is based on the staff findings that:

- 1. The data exhibited sufficient spatial and temporal coverage.
- 2. Beneficial uses apply to the water body.
- 3. Water quality standard used is applicable.
- 4. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 5. Data are numerical.
- 6. Other water body- or site-specific information including the effects of season and age of the data were considered.

Most of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 1: Garcia River Sedimentation/Siltation

Water Body	Garcia River		
Stressor/Media/Beneficial Use	Sedimentation-Siltation/Water/Aquatic Life		
Data quality assessment. Extent to which data quality requirements met.	N/A		
Linkage between measurement endpoint and benefical use or standard	N/A		
Utility of measure for judging if standards or uses are not attained	N/A		
Water Body-specific Information	N/A		
Data used to assess water quality	N/A		
Spatial representation	N/A		
Temporal representation	N/A		
Data type	N/A		
Use of standard method	N/A		
Potential Source(s) of Pollutant	N/A		
Alternative Enforceable Program	N/A		
RWQCB Recommendation	None.		
SWRCB Staff Recommendation	After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the TMDLs Completed List because a TMDL has been developed for the water body-pollutant combination. The TMDL has been approved by USEPA.		

Region 1: Gualala River Temperature

Water Body Gualala River

Stressor/Media/Beneficial Use Temperature/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Data with a QA/QC were given the greatest weight.

Linkage between measurement endpoint and benefical use or standard

Maximum Weekly Average Temperature (MWAT) linked to Aquatic Life Beneficial Use.

Utility of measure for judging if standards or uses are not attained

Basin Plan Water Quality Objectives/Historic Temperature Ranges/Sullivan 2000 Published Temperature Thresholds- Peer Reviewed Literature.

Water Body-specific Information

Data = 6 Years (1994-2000), Data measured at site, Species or indicator present at site, Environmental conditions considered at site.

Data used to assess water quality

MWAT values exceeded criteria for sub-lethal effects (10 to 20% reduced growth) in the watershed at all or most locations. Maximum temperatures in one year at 15 locations was higher than 24 Degrees = Lethal.

Spatial representation

62 Locations over the 300 square mile area in the Gualala River Watershed.

Temporal representation

Data collected over 6 Years, with at least two years at 27 locations.

Data type

Numerical data.

Use of standard method

Unknown.

Potential Source(s) of Pollutant

Streambank modification/destabilization, Removal of riparian vegetation, Nonpoint sources.

Alternative Enforceable Program

RWOCB Recommendation

Watch List: Based on a letter sent from the NCRWQCB on January 31, 2002 the RWQCB feels there is insufficient information existing to list. The Maximum Weekly Average Temperature (MWAT) and the Maximum Weekly Maximum Temperature (MWMT) values for the Gualala River Watershed exceed the criteria values (Sullivan, 2000 Published Temperature Thresholds -Peer Reviewed Literature), that were used to translate the narrative Water Quality Objective for Region 1 for Temperature.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data exhibited sufficient spatial and temporal coverage.
- 2. Beneficial uses apply to the water body.
- 3. Water quality standard used is applicable.

Region 1: Gualala River Temperature

- 4. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 5. Data are numerical.
- 6. Other water body- or site-specific information including the effects of season and age of the data were considered.

Most of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 1: Gualala River Sedimentation/Siltation

Water Body Gualala River

Stressor/Media/Beneficial Use Sedimentation-Siltation/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

N/A

Linkage between measurement endpoint

and benefical use or standard

N/A

Utility of measure for judging if standards or uses are not attained

N/A

Water Body-specific Information

USEPA has approved a TMDL for this water body-pollutant combination.

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant N/A

 $\begin{tabular}{ll} \textbf{Alternative Enforceable Program} \\ \textbf{N/A} \end{tabular}$

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the TMDLs Completed List because a plan to implement the TMDL has not been adopted or approved even

though the TMDL has been approved by USEPA.

Region 1: Jacoby Creek Sediment

Water Body Jacoby Creek

Stressor/Media/Beneficial Use Sediment/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Data with a QA/QC were given the greatest weight and a QA Plan was submitted as a reference.

Linkage between measurement endpoint and benefical use or standard

Turbidity linked to Aquatic Life Beneficial Use.

Utility of measure for judging if standards or uses are not attained

Basin Plan Water Quality objectives for Sediment, settable material and turbidity. Published Sedimentation Thresholds- Peer Reviewed Literature.

Water Body-specific Information Da

Data = 10 Years (1992-2002). Data measured at site, Species or indicator present at Site, Environmental conditions considered at site.

Data used to assess water quality

Turbidity levels throughout the watershed from 1992- 2002, are recorded at levels detrimental to salmonids. Up to 1.6 feet of aggradation from 1992 to 2002 based on cross section surveys.

Spatial representation

Targeted Sites, 10 along the creek.

Temporal representation

Data collected over 10 years in 1992-2002.

Data type

Numerical Data.

Use of standard method

Protocol/QAPP developed by Salmon Forever using EPA and USGS standard methods.

Potential Source(s) of Pollutant

Silviculture, Road construction, Land development, Nonpoint source, Natural sources.

Alternative Enforceable Program

RWOCB Recommendation

List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

Most of the water quality measurements exceeded the water quality

Region 1: Jacoby Creek Sediment

standard. The staff confidence that standards were exceeded is high. Based on the review of available information the Beneficial Uses of Jacoby Creek are impacted due to sedimentation. The data have exceeded the criteria (Published Sedimentation Thresholds-Peer Reviewed Literature), used to translate the narrative Basin Plan Water Quality Objectives for sediment.

Region 1: Laguna de Santa Rosa Sediment

Laguna de Santa Rosa Water Body

Stressor/Media/Beneficial Use Sediment/Water/Cold Freshwater Habitat; Spawning, Reproduction, and/or

Early Development; Rare, Threatened, or Endangered Species.

Data quality assessment. Extent to which data quality requirements met.

Linkage between measurement endpoint

and benefical use or standard

Utility of measure for judging if standards or uses are not attained

Water Body-specific Information The Russian River watershed was listed for Sedimentation/Siltation in

1998. This listing applies to Santa Rosa Creek. Estimated TMDL

Completion Date is 2011.

Data used to assess water quality

Spatial representation

Temporal representation

Data type

Use of standard method

Potential Source(s) of Pollutant

Alternative Enforceable Program

Maintain listing. **RWQCB Recommendation**

SWRCB Staff Recommendation Maintain listing.

Region 1: Laguna de Santa Rosa Temperature

Water Body Laguna de Santa Rosa

Stressor/Media/Beneficial Use Temperature/Water/Cold Freshwater Habitat; Spawning, Reproduction,

and/or Early Development; Rare, Threatened, or Endangered Species

Data quality assessment. Extent to which data quality requirements met.

Data with a QA/QC were given the greatest weight.

Linkage between measurement endpoint and benefical use or standard

MWAT linked to Aquatic Life Beneficial Use.

Utility of measure for judging if standards or uses are not attained

Basin Plan Water Quality Objectives/Historic Temperature Ranges/Sullivan 2000 Published Temperature Thresholds- Peer Reviewed Literature.

Data = 5 years (1997-2001), Data measured at site, Species or indicator

present at site, Environmental conditions considered at site.

Data used to assess water quality

Water Body-specific Information

All 26 locations had MWAT values exceeding the (Sullivan 2000) criteria of 14.8 and 17 Degrees, used to translate the narrative WQO for

temperature.

Spatial representation 26 Site locations in the Russian River Watershed.

Temporal representation More than one season for 5 years.

Data type Numerical data.

Use of standard method

Potential Source(s) of Pollutant Flow regulation/modification, Removal of riparian vegetation, Habitat

Modification, Nonpoint Sources.

Alternative Enforceable Program

RWQCB Recommendation Based on a letter sent from the NCRWQCB on January 31, 2002 the

RWQCB feels there is sufficient information and recommends to list the Russian River watershed. This listing includes the Laguna de Santa Rosa. The Maximum Weekly Average Temperature (MWAT) and the Maximum Weekly Maximum Temperature (MWMT) values for the Russian River Watershed exceed the criteria values (Sullivan, 2000 Published Temperature Thresholds- Peer Reviewed Literature) that were used to

translate the narrative Water Quality Objective for Region 1 for

Temperature.

SWRCB Staff Recommendation Based on a letter sent from the NCRWOCB on January 31, 2002 the

SWQCB feels there is sufficient information and recommends to list the Russian River watershed. This listing includes the Laguna de Santa Rosa. The Maximum Weekly Average Temperature (MWAT) and the Maximum Weekly Maximum Temperature (MWMT) values for the Russian River Watershed exceed the criteria values (Sullivan, 2000 Published Temperature Thresholds- Peer Reviewed Literature) that were used to translate the narrative Water Quality Objective for Region 1 for

Temperature.

Region 1: Laguna de Santa Rosa Nutrients

Water Body Laguna de Santa Rosa

Stressor/Media/Beneficial Use Nutrients/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Data with a QA/QC were given the greatest weight.

Linkage between measurement endpoint and benefical use or standard

Nitrogen and Phosphorus linked to Aquatic Life Beneficial Use.

Utility of measure for judging if standards or uses are not attained

The RWQCB initially used a USEPA goal for phosphorus to interpret the data. The use of the phosphorus goal does not address the conditions present in the Laguna de Santa Rosa. There is significant disagreement over phosphorus limitation in the Laguna. The response of water bodies to nutrient enrichment differ among water bodies and one applicable nutrient objective is not available. USEPA and the state are in the process of developing nutrient objectives for the bioregions of California.

Water Body-specific Information

Data = 5-6 Years (1995-2001), Data measured at site, Species or indicator present at Site, Environmental conditions considered at site.

Data used to assess water quality

Even though there are 10 water chemistry samples, there is no applicable guideline that can be used to interpret the narrative standard. Even though a phosphorus goal is not applicable in this specific situation, it is clear that the Laguna de Santa Rosa does not meet standards for low dissolved oxygen. It is also clear that nutrient concentrations are a probable cause of the low oxygen concentrations. New monitoring should be completed that identifies the contribution of nutrients and their relationship to the observed low oxygen concentrations.

Spatial representation

Targeted Sites, 10 along the creek.

Temporal representation

Data collected over 4 seasons.

Data type

Numerical data.

Use of standard method

USEPA Standards, and Standard Methods for examination of Wastewater and Water.

Potential Source(s) of Pollutant

Point source, Nonpoint source, Internal nutrient cycling.

Alternative Enforceable Program

List

SWRCB Staff Recommendation

RWQCB Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the Monitoring List. The Desired Goal used to determine the nutrients listing, does not take into consideration the nutrient cycling or site-specific conditions taking place in the Laguna de Santa Rosa. Placement on the Monitoring List will allow the RWQCB to better define and understand which pollutant contributes to or causes the low dissolved oxygen in the Laguna de Santa Rosa. Stakeholders have committed to work in cooperation with the RWQCB to develop a TMDL

Region 1: Laguna de Santa Rosa Nutrients

analysis for dissolved oxygen that will provide a better understanding of nutrients and their influence in the Laguna de Santa Rosa. Nutrients will be addressed in the development of the Dissolved Oxygen TMDL. This stakeholder process should be transparent and inclusive of all participants.

Region 1: Laguna de Santa Rosa Diazinon

Water Body Laguna de Santa Rosa

Stressor/Media/Beneficial Use Diazinon

Data quality assessment. Extent to which data quality requirements met.

Linkage between measurement endpoint and benefical use or standard

Utility of measure for judging if standards or uses are not attained

Water Body-specific Information

Data used to assess water quality

In November, 1999 results from the City of Santa Rosa were non-detect for all pesticides, including diazinon. As presented in the RWQCB November 16, 2002 303(d) List Update Recommendations report, a 1997 Department of Pesticides Regulations study reported that two of the fifty two samples from the Russian River above the reporting limit, at concentrations above that believed to be detrimental to freshwater organisms. The RWQCB recommends placing the Russian River watershed on the Watch List for diazinon, but not specifying individual tributaries.

Spatial representation

Temporal representation

Data type

Use of standard method

Potential Source(s) of Pollutant

Alternative Enforceable Program

RWQCB Recommendation

Exclude the Laguna de Santa Rosa from Listing for diazinon.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be excluded from Listing.

This conclusion is based on the staff findings that only two of the water quality measurements exceeded the applicable water quality criteria. The RWQCB recommends placing the Russian River watershed on the Watch List for diazinon, but not specifying individual tributaries.

Region 1: Laguna de Santa Rosa Chromium, Copper, and Zinc

Water Body Laguna de Santa Rosa

Stressor/Media/Beneficial Use Chromium, Copper, and Zinc

Data quality assessment. Extent to which data quality requirements met.

Linkage between measurement endpoint and benefical use or standard

Utility of measure for judging if standards or uses are not attained

Water Body-specific Information

Data used to assess water quality

Available copper, chromium, and zinc water quality and sediment data, including additional (new) data has submitted by the City of Santa Rosa collected from Santa Rosa Creek and Laguna de Santa Rosa. Comparison of these data to applicable criteria (maximum contaminant level, an agricultural criterion, public health goals, aquatic life criterion, and California Toxic Rule criteria) shows that all available data are below applicable criteria. The RWQCBs previous assessment did not include comparison to CTR. The City of Santa Rosa continues to monitor both Santa Rosa Creek and the Laguna de Santa Rosa for these metals, and the RWOCB will continue to review the results when available.

Spatial representation

Temporal representation

Data type

Use of standard method

Potential Source(s) of Pollutant

Alternative Enforceable Program

RWQCB Recommendation

Exclude from Listing.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be excluded from Listing.

This conclusion is based on the staff findings that none of the water quality measurements exceeded the applicable water quality criteria.

Region 1: Laguna de Santa Rosa Low Dissolved Oxygen

Water Body	Laguna de Santa Rosa
water body	\mathcal{E}

Stressor/Media/Beneficial Use Low Dissolved Oxygen/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Data with a QA/QC were given the greatest weight.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen linked to Aquatic Life Beneficial Use.

Utility of measure for judging if standards or uses are not attained

WQO, RWQCB's Basin Plan Objective for Dissolved Oxygen.

Water Body-specific Information Data = 5-6 Years (1995-2001), Data measured at site, Species or indicator

present at Site, Environmental conditions considered at site.

Data used to assess water quality Water Chemistry Total Samples n=1792, with 1612 below the 7.0 mg/L

Objective.

Spatial representation Data collected at 4 attainment points along the water body.

Temporal representation Data collected over 4 seasons.

Data type Numerical data.

Use of standard method City of Santa Rosa Monitoring, North Coast RWQCB monitoring.

Potential Source(s) of Pollutant Nonpoint source, Point Source, Internal nutrient cycling.

Alternative Enforceable Program

RWQCB Recommendation List

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body- or site-specific information including the age of the data were considered.

Most of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

A TMDL was completed for dissolved oxygen in 1995, but recent data

Region 1: Laguna de Santa Rosa Low Dissolved Oxygen

show that water quality objectives are not yet being met, and additional measures need to be taken to address this problem. Recently, the City of Santa Rosa in cooperation with the RWQCB has committed to fund a study to develop a TMDL analysis for dissolved oxygen that will be used to set waste load and load allocations for the Laguna de Santa Rosa.

Region 1: Lake Mendocino Mercury

Water Body Lake Mendocino

Stressor/Media/Beneficial Use Mercury/Water/Fish Consumption

Data quality assessment. Extent to which data quality requirements met.

Data with a QA/QC were given the greatest weight. TSMP QAPP was

used.

Linkage between measurement endpoint

and benefical use or standard

Mercury is linked to Fish Consumption.

Utility of measure for judging if standards or uses are not attained

U.S. EPA Tissue Residue Criterion.

Water Body-specific Information

Data = 3 years (1999 - 2001), Data measured at site, species present in the water body, environmental conditions considered at site.

Data used to assess water quality

The 1999 data show that all three of the fish samples exceed the U.S. EPA tissue residue criterion. The preliminary data from 2001 show that six of the ten samples exceed the U.S. EPA tissue residue criterion. These intensive monitoring studies of fish tissue mercury levels in Lake Mendocino in cooperation with the Office of Environmental Health and Hazard Assessment show that the mercury levels in Lake Mendocino

exceed the U.S. EPA tissue residue criterion.

Spatial representation Data were collected spatially within Lake Mendocino.

Temporal representation Data were collected during May in the 1999 study and during September

in the 2000 study.

Data type Numerical data.

Use of standard method RWQCB methods.

Potential Source(s) of Pollutant Resource Extraction, Non-point Source

Alternative Enforceable Program

RWQCB Recommendation Monitoring List

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.

Region 1: Lake Mendocino Mercury

Most of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 1: Lake Sonoma

Mercury

Lake Sonoma Water Body

Stressor/Media/Beneficial Use Mercury/Water/Fish Consumption

Data quality assessment. Extent to which data quality requirements met. Data with a QA/QC were given the greatest weight. TSMP QAPP was

used.

Linkage between measurement endpoint

and benefical use or standard

Mercury is linked to Fish Consumption.

Utility of measure for judging if standards or uses are not attained U.S. EPA Tissue Residue Criterion.

Water Body-specific Information

Data = 3 years (1999 - 2001), Data measured at site, species present in the water body, environmental conditions considered at site.

Data used to assess water quality

The 1999 data show that all six of the fish samples exceed the U.S. EPA tissue residue criterion. The preliminary data from 2001 show that seven of the twelve samples exceed the U.S. EPA tissue residue criterion. These intensive monitoring studies of fish tissue mercury levels in Lake Sonoma in cooperation with the Office of Environmental Health and Hazard Assessment show that the mercury levels in Lake Sonoma exceed the U.S.

EPA tissue residue criterion.

Spatial representation Data were collected spatially within Lake Sonoma.

Temporal representation Data were collected during May in the 1999 study and during September

in the 2001 study.

Data type Numerical data.

Use of standard method RWOCB methods.

Potential Source(s) of Pollutant Resource Extraction, Non-point Source

Alternative Enforceable Program

RWOCB Recommendation Monitoring List

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.

Region 1: Lake Sonoma Mercury

Most of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 1: Mad River

Temperature

Water Body Mad River

Stressor/Media/Beneficial Use Temperature/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Data with a OA/OC were given the greatest weight.

Linkage between measurement endpoint and benefical use or standard

MWAT linked to Aquatic Life Beneficial Use.

Utility of measure for judging if standards or uses are not attained

Basin Plan Water Quality Objectives/Historic Temperature Ranges/Sullivan 2000 Published Temperature Thresholds- Peer Reviewed Literature.

Water Body-specific Information

Data = 4 years (97-2001), Data measured at site, Species or indicator present at Site, Environmental conditions considered at site.

Data used to assess water quality

MWAT values at all 11 locations exceeded 20 degrees and are higher than the criteria for sub-lethal effects (10 to 20% reduced growth). Maximum temperatures at most of the 11 locations were higher than 24 Degrees (= Lethal) in most years.

Spatial representation

Targeted 11 sites along the 503 sq. miles of the creek.

Temporal representation

Data collected over 4 years. Data was available from 11 locations, with at

least 2 years of record at most locations.

Data type

Numerical data.

Use of standard method

Monitoring was conducted as part of the permitting process from 1997-2000).

Potential Source(s) of Pollutant

Flow regulation/modification, Removal of riparian vegetation, Habitat modification, Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation

Watch List: Based on a letter sent from the NCRWQCB on January 31, 2002 the RWQCB feels there is insufficient information existing to list. The Maximum Weekly Average Temperature (MWAT) and the Maximum Weekly Maximum Temperature (MWMT) values for the Mad River Watershed exceed the criteria values (Sullivan, 2000 Published Temperature Thresholds -Peer Reviewed Literature), that were used to translate the narrative Water Quality Objective for Region 1 for Temperature.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

1. The data exhibited sufficient spatial and temporal coverage.

Region 1: Mad River Temperature

- 2. Beneficial uses apply to the water body.
- 3. Water quality standard used is applicable.
- 4. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 5. Data are numerical.
- 6. Other water body- or site-specific information including the effects of season and age of the data were considered.

Most of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 1: Mattole River Sedimentation

Water Body

Spatial representation

Data type

Stressor/Media/Beneficial Use Sedimentation and Temperature/Water/Cold Freshwater Habitat: Spawning, Reproduction, and/or Early Development; Rare, Threatened, or Endangered Species. Data with a QA/QC plan were given the greatest weight. Data quality assessment. Extent to which data quality requirements met. In-stream sediment indicators linked to salmonid requirements. Linkage between measurement endpoint and benefical use or standard Temperature thresholds (MWAT) linked to salmonid sensitive life-stage requirements. Utility of measure for judging if Basin Plan water quality objectives for sediment, settleable solids, and standards or uses are not attained turbidity; published sediment thresholds from peer reviewed literature. aerial photo interpretation. Basin Plan water quality objective for temperature; Sullivan, et al 2000 published temperature thresholds, stream temperature modeling. Water Body-specific Information Analysis of 1941 to 2000 aerial photo sets. 2002 road and stream survey data. 1994-2001 stream temperature data. Riparian vegetation conditions throughout entire watershed. Thermal infrared survey of entire mainstem and six large tributaries. Water temperature data collected every 1-1.5 hours throughout summer. Stream substrate parameters. Channel morphology responsive/vulnerable Data used to assess water quality to increased flows and input of upslope sediment. Water temperature data collected every 1-1.5 hours throughout summer.

Mattole River

conditions, thermal infrared survey of entire mainstem and six large tributaries; well distributed stream temperature monitoring.

Temporal representation

Aerial photo data collected represents a 60 year period, stream temperature

data collected over seven years.

Numeric data, aerial photo analysis, measured instream parameters, remotely gathered thermal infrared and vegetation coverages.

Targeted 40 road and stream surveys; 44 square miles of aerial photo analysis, complete representation of current and potential stream shade

Use of standard method Forest Science Project stream temperature data collection protocol, WA

State Watershed Analysis Manual.

Potential Source(s) of Pollutant Road construction, Timber harvest activity, Livestock grazing-

riparian/upland, and Natural sources, Silviculture, Logging Road

Construction.

Alternative Enforceable Program None.

RWOCB Recommendation Maintain Listing.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the

Region 1: Mattole River Sedimentation

water body should not be removed from the section 303(d) list because applicable water quality standards are still exceeded and a pollutant contributes to or causes the problem. Maintain Listing. Original Listing Date:1993. Estimated TMDL Completion Date:1/06.

Region 1: Navarro River Temperature

Water Body		Navarro	Navarro River		
~			_	/.	

Stressor/Media/Beneficial Use Temperature/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. N/A

Linkage between measurement endpoint

and benefical use or standard

N/A

N/A

Utility of measure for judging if standards or uses are not attained

Water Body-specific Information

USEPA has approved a TMDL for this water body-pollutant combination.

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A N/A Data type

Use of standard method N/A

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program N/A

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the TMDLs Completed List because a plan to implement the TMDL has not been adopted or approved even

though the TMDL has been approved by USEPA.

Region 1: Noyo River Sedimentation/Siltation

Water Body Noyo River

Stressor/Media/Beneficial Use Sedimentation-Siltation/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

N/A

Linkage between measurement endpoint

and benefical use or standard

N/A

Utility of measure for judging if standards or uses are not attained

N/A

Water Body-specific Information

USEPA has approved a TMDL for this water body-pollutant combination.

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant N/A

 $\begin{tabular}{ll} \textbf{Alternative Enforceable Program} \\ \textbf{N/A} \end{tabular}$

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the TMDLs Completed List because a plan to implement the TMDL has not been adopted or approved even

though the TMDL has been approved by USEPA.

Region 1: Redwood Creek Sedimentation

Seamentation	
Water Body	Redwood Creek
Stressor/Media/Beneficial Use	Sedimentation/Water/Cold Freshwater Habitat; Spawning, Reproduction, and/or Early Development; Rare, Threatened, or Endangered Species.
Data quality assessment. Extent to which data quality requirements met.	Data with a QA/QC plan were given the greatest weight.
Linkage between measurement endpoint and benefical use or standard	In-stream sediment indicators linked to salmonid habitat requirements.
Utility of measure for judging if standards or uses are not attained	Basin Plan water quality objectives for sediment, settleable solids, and turbidity; published sediment thresholds from peer reviewed literature.
Water Body-specific Information	1975-1995: particle size distribution data; 1977-1999: channel morphology data; 1973-2000 suspended sediment data; 1999 turbidity data; 2002 road inventory data.
Data used to assess water quality	Fine sediment loads exceed TMDL thresholds, particularly in the lower watershed. Channel morphology responsive/ vulnerable to increased flows and input of upslope sediment. Suspended sediment loads do not consistently meet TMDL threshold. Road densities throughout basin exceed densities protective of water quality. 15% of roads have been decommissioned, and 6% have been upgraded.
Spatial representation	Targeted 4 to 15 sites (depending on variable) throughout 282 square mile watershed.
Temporal representation	Data collected over 25 year period.
Data type	Numerical data.
Use of standard method	USGS sampling. Peer-reviewed monitoring/sampling techniques.
Potential Source(s) of Pollutant	Harvest-related erosion, Road-related surface erosion, gullies, Road crossing failures, Natural landslides, Logging road construction, Natural sources, Erosion/Siltation.
Alternative Enforceable Program	None.
RWQCB Recommendation	Maintain Listing.
SWRCB Staff Recommendation	After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be removed from the section 303(d) list because applicable water quality standards are still exceeded and a pollutant

contributes to or causes the problem. Original Listing Date:1993. Estimated TMDL Completion Date: 7/07.

Region 1: Redwood Creek Temperature

Water Body Redwood Creek

Stressor/Media/Beneficial Use Temperature/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Data with a QA/QC were given the greatest weight.

Linkage between measurement endpoint and benefical use or standard

MWAT linked to Aquatic Life Beneficial Use.

Utility of measure for judging if standards or uses are not attained

Basin Plan Water Quality Objectives/Historic Temperature Ranges/Sullivan 2000 Published Temperature Thresholds- Peer Reviewed

Literature.

Water Body-specific Information

Data = 7 years (94-2001), Data measured at site, Species or indicator present at Site, Environmental conditions considered at site.

Data used to assess water quality

MWAT values at 23 of the 31 locations exceeded criteria (Sullivan 2000) for 14.8 degrees C. 10 locations exceeded the criteria sub-lethal effects (10% reduced growth) 17 degrees C. 5 locations in the estuary, 3 locations in the mainstem, and 1 on Lacks Creek exceeded the criteria available for (20% reduced growth) sub-lethal effects. Maximum temperatures at 6 locations were higher than 24 Degrees Celsius (= Lethal).

Spatial representation

Targeted sites 31 locations over the 294 sq. miles of the creek.

Temporal representation

Data was collected over 7 years (94-2001), with at least two years of record

at 20 locations.

Data type

Numerical data.

Use of standard method

USGS sampling.

Potential Source(s) of Pollutant

Landslides in the Redwood Creek Watershed/Floods/Erosion of decommissioned roads, Removal of Riparian Vegetation, Streambank Modification/Destabilization, Erosion/Siltation, Nonpoint Sources.

Alternative Enforceable Program

RWQCB Recommendation

Watch List: Based on a letter sent from the NCRWQCB on January 31, 2002 the RWQCB feels there is insufficient information existing to list. The Maximum Weekly Average Temperature (MWAT) and the Maximum Weekly Maximum Temperature (MWMT) values for the Ten Mile River Watershed exceed the criteria values (Sullivan, 2000 Published Temperature Thresholds-Peer Reviewed Literature), that were used to translate the narrative Water Quality Objective for Region 1 for Temperature.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

Region 1: Redwood Creek Temperature

This conclusion is based on the staff findings that:

- 1. The data exhibited sufficient spatial and temporal coverage.
- 2. Beneficial uses apply to the water body.
- 3. Water quality standard used is applicable.
- 4. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 5. Data are numerical.
- 6. Other water body- or site-specific information including the effects of season and age of the data were considered.

Most of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 1: Russian River Temperature

Water Body Russian River

Stressor/Media/Beneficial Use Temperature/Water/Aquatic Life

Stressor/Media/Beneficial Osc

Data quality assessment. Extent to which data quality requirements met.

Data with a QA/QC were given the greatest weight.

Linkage between measurement endpoint MWAT linked to Aquatic Life Beneficial Use. and benefical use or standard

Utility of measure for judging if
standards or uses are not attained
Basin Plan Water Quality Objectives/Historic Temperature
Ranges/Sullivan 2000 Published Temperature Thresholds- Peer Reviewed

Literature.

Water Body-specific Information Data = 5 years (1997-2001), Data measured at site, Species or indicator

present at site, Environmental conditions considered at site.

Data used to assess water quality All 26 locations had MWAT values exceeding the (Sullivan 2000) criteria

of 14.8 and 17 Degrees, used to translate the narrative WQO for

temperature.

Spatial representation 26 Site locations in the Russian River Watershed.

Temporal representation More than one season for 5 years.

Data type Numerical data.

Use of standard method Unknown.

Potential Source(s) of Pollutant Flow regulation/modification, Removal of riparian vegetation, Habitat

Modification, Nonpoint Sources.

Alternative Enforceable Program

RWQCB Recommendation Based on a letter sent from the NCRWQCB on January 31, 2002 the

RWQCB feels there is sufficient information and recommends to list this water body. The Maximum Weekly Average Temperature (MWAT) and the Maximum Weekly Maximum Temperature (MWMT) values for the Russian River Watershed exceed the criteria values (Sullivan, 2000 Published Temperature Thresholds- Peer Reviewed Literature) that were used to translate the narrative Water Quality Objective for Region 1 for

Temperature.

SWRCB Staff Recommendation After reviewing the available data and information and the RWOCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or

causes the problem.

This conclusion is based on the staff findings that:

- 1. The data exhibited sufficient spatial and temporal coverage.
- 2. Beneficial uses apply to the water body.
- 3. Water quality standard used is applicable.
- 4. The evaluation guideline used to interpret narrative water quality

Region 1: Russian River Temperature

standards is adequate.

- 5. Data are numerical.
- 6. Other water body- or site-specific information including the age of the data were considered.

All of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 1: Russian River Pathogens

Water Body Russian River

Stressor/Media/Beneficial Use Pathogens/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Data with a QA/QC were given the greatest weight.

Linkage between measurement endpoint and benefical use or standard

Pathogens/Bacteria (i.e. Fecal coliform) to REC-1 Beneficial Use.

Utility of measure for judging if standards or uses are not attained

Basin Plan Water Quality Objectives.

Water Body-specific Information Data = 15 Years (1987-2001), Data measured at site, Species or indicator

present at site, Environmental conditions considered at sites.

Data used to assess water qualityBacterial Data: 72% of the fecal coliform data from 1986-1994 at

Healdsburg Memorial Beach exceed the WQO. 75% of the fecal coliform

data from 1992-1994 at Monte Rio beach exceed the WQO.

Spatial representation Healdsburg Memorial Beach and Monte Rio Beach areas, sample sites

unknown.

Temporal representation All of the Samples were collected in the summer months.

Data type Numerical data.

Use of standard method Unknown.

Potential Source(s) of PollutantPoint sources, Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem. Data has shown these water bodies have exceeded the WQO for pathogens. List the Monte Rio area from the confluence of Dutch Bill Creek to the confluence of Fife Creek. Also list Healdsburg Memorial Beach from the Highway 101 crossing to the railroad crossing upstream of the beach.

This conclusion is based on the staff findings that:

- 1. The data exhibited sufficient spatial and temporal coverage.
- 2. Beneficial uses apply to the water body.
- 3. Water quality standard used is applicable.
- 4. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 5. Data are numerical.
- 6. Other water body- or site-specific information including the age of the data were considered.

Region 1: Russian River Pathogens

Most of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 1: Santa Rosa Creek Sediment

Water Body Santa Rosa Creek

Stressor/Media/Beneficial Use Sediment/Water/Cold Freshwater Habitat; Spawning, Reproduction, and/or

Early Development; Rare, Threatened, or Endangered Species.

Data quality assessment. Extent to which data quality requirements met.

Linkage between measurement endpoint and benefical use or standard

and benefical use of standard

Utility of measure for judging if standards or uses are not attained

Water Body-specific Information The Russian River watershed was listed for Sedimentation/Siltation in

1998. This listing applies to Santa Rosa Creek. Estimated TMDL

Completion Date is 2011.

Data used to assess water quality

Spatial representation

Temporal representation

Data type

Use of standard method

Potential Source(s) of Pollutant

Alternative Enforceable Program

RWQCB Recommendation Maintain Listing

SWRCB Staff Recommendation Maintain Listing

Region 1: Santa Rosa Creek Temperature

Water Body Santa Rosa Creek

Stressor/Media/Beneficial Use Temperature/Water/Cold Freshwater Habitat; Spawning, Reproduction,

and/or Early Development; Rare, Threatened, or Endangered Species.

Data quality assessment. Extent to Data which data quality requirements met.

Data with a QA/QC were given the greatest weight.

Linkage between measurement endpoint and benefical use or standard

MWAT linked to Aquatic Life Beneficial Use.

Utility of measure for judging if standards or uses are not attained

Basin Plan Water Quality Objectives/Historic Temperature Ranges/Sullivan 2000 Published Temperature Thresholds- Peer Reviewed

Literature.

Water Body-specific Information Data = 5 years (1997-2001), Data measured at site, Species or indicator

present at site, Environmental conditions considered at site.

Data used to assess water quality All 26 locations had MWAT values exceeding the (Sullivan 2000) criteria

of 14.8 and 17 Degrees, used to translate the narrative WQO for

temperature.

Spatial representation 26 Site locations in the Russian River Watershed.

Temporal representation More than one season for 5 years.

Data type Numerical data.

Use of standard method

Potential Source(s) of Pollutant Flow regulation/modification, Removal of riparian vegetation, Habitat

Modification, Nonpoint Sources.

Alternative Enforceable Program

RWQCB Recommendation Based on a letter sent from the NCRWQCB on January 31, 2002 the

RWQCB feels there is sufficient information and recommends to list the Russian River watershed. This listing includes Santa Rosa Creek. The Maximum Weekly Average Temperature (MWAT) and the Maximum Weekly Maximum Temperature (MWMT) values for the Russian River Watershed exceed the criteria values (Sullivan, 2000 Published Temperature Thresholds- Peer Reviewed Literature) that were used to

translate the narrative Water Quality Objective for Region 1 for

Temperature.

SWRCB Staff Recommendation Based on a letter sent from the NCRWOCB on January 31, 2002, there is

sufficient information and recommends to list the Russian River watershed. This listing includes Santa Rosa Creek. The Maximum Weekly Average Temperature (MWAT) and the Maximum Weekly Maximum Temperature (MWMT) values for the Russian River Watershed exceed the criteria values (Sullivan, 2000 Published Temperature Thresholds- Peer Reviewed Literature) that were used to translate the narrative Water Quality

Objective for Region 1 for Temperature.

Region 1: Santa Rosa Creek Pathogens

Santa Rosa Creek

Water Body

Stressor/Media/Beneficial Use Pathogens/Water/REC-1

Data quality assessment. Extent to which data quality requirements met. Data with a QA/QC were given the greatest weight.

Linkage between measurement endpoint and benefical use or standard

Pathogens/Bacteria (i.e. E. coli.) linked to REC-1 Beneficial Use.

Utility of measure for judging if standards or uses are not attained CA. Draft DHS Guidance for Freshwater Beaches, Swimming Advisory Posting.

Water Body-specific Information

Data = 1-23 Years (1979/1980 and 2001), Data measured at site, Species or indicator present at Site, Environmental conditions considered at site.

Data used to assess water quality

Bacterial Data n=38, 19 exceeding draft DHS Guidance standards NOT enough data to show exceedance of REC-1 WQO -Bacteria, but enough to show exceedance of the DHS guidance. The DHS guidance for fresh water beaches, which was used to post a swimming advisory for this water body.

Spatial representation Targeted Sites, 12 along the creek.

Temporal representation Data collected over 12 days in June/July 2001 and also during 4 separate

months in 1979/1980.

Data type Numerical data.

Use of standard method City of Santa Rosa and Draft CA. State DHS Guidance for Fresh Water

Beaches.

Point sources and Nonpoint sources. Potential Source(s) of Pollutant

Alternative Enforceable Program

RWOCB Recommendation List

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the

water body should be placed on the section 303(d) list.

This conclusion is based on the staff findings that:

1. The data exhibited sufficient spatial and temporal coverage.

2. The evaluation guideline used is adequate. A Swimming Advisory for this waterbody is in effect, based on the use of this Draft CA. DHS Guidance for Fresh Water Beaches, impacting the Beneficial Use. There was not enough data to show exceedances of REC-1, WQO-Bacteria.

3. Data are numerical.

4. Standard methods were used.

5. Other water body- or site-specific information including the age of the

data were considered.

An adequate number of the water quality measurements exceeded the DHS guidance. The staff confidence that standards were exceeded in high.

Region 1: Santa Rosa Creek Chromium, Copper, and Zinc

Santa Rosa Creek Water Body

Stressor/Media/Beneficial Use Chromium, Copper, and Zinc

Data quality assessment. Extent to which data quality requirements met.

Linkage between measurement endpoint and benefical use or standard

Utility of measure for judging if standards or uses are not attained

Water Body-specific Information

Data used to assess water quality

Available copper, chromium, and zinc water quality and sediment data, including additional (new) data has submitted by the City of Santa Rosa collected from Santa Rosa Creek and Laguna de Santa Rosa. Comparison of these data to applicable criteria (maximum contaminant level, an agricultural criterion, public health goals, aquatic life criterion, and California Toxic Rule criteria) shows that all available data are below applicable criteria. The RWQCBs previous assessment did not include comparison to CTR. The City of Santa Rosa continues to monitor both Santa Rosa Creek and the Laguna de Santa Rosa for these metals, and the RWOCB will continue to review the results when available.

Spatial representation

Temporal representation

Data type

Use of standard method

Potential Source(s) of Pollutant

Alternative Enforceable Program

RWQCB Recommendation

Exclude from Listing.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the

water body should be excluded from Listing.

This conclusion is based on the staff findings that none of the water quality

measurements exceeded the applicable water quality criteria.

Region 1: Santa Rosa Creek Diazinon

Water Body Santa Rosa Creek

Stressor/Media/Beneficial Use

Diazinon

Data quality assessment. Extent to which data quality requirements met.

Linkage between measurement endpoint and benefical use or standard

Utility of measure for judging if standards or uses are not attained

Water Body-specific Information

Data used to assess water quality

In November of 1999 results by the City of Santa Rosa were non-detect for all pesticides, including diazinon. Presented in the RWQCB November 16, 2002 303(d) List Update Recommendations report, a 1997 Department of Pesticides Regulations study reported that two of the fifty two samples from the Russian River above the reporting limit, at concentrations above that believed to be detrimental to freshwater organisms. The RWQCB recommends placing the Russian River watershed on the Watch List for diazinon, but not specifying individual tributaries.

Spatial representation

Temporal representation

Data type

Use of standard method

Potential Source(s) of Pollutant

Alternative Enforceable Program

RWQCB Recommendation

Exclude from Listing.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be excluded from Listing.

This conclusion is based on the staff findings that none of the water quality measurements exceeded the applicable water quality criteria. The RWQCB recommends placing the Russian River watershed on the Watch List for diazinon, but not specifying individual tributaries.

The tributaries of the Russian River should not be placed on the Monitoring List. The Russian River should be on the Monitoring List for diazinon.

Region 1: South Fork Eel River Temperature

Water Body	South Fork Eel River
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Stressor/Media/Beneficial Use Temperature/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

N/A

Linkage between measurement endpoint

and benefical use or standard

N/A

Utility of measure for judging if standards or uses are not attained

N/A

Water Body-specific Information

USEPA has approved a TMDL for this water body-pollutant combination.

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant N/A

 $\begin{tabular}{ll} \textbf{Alternative Enforceable Program} \\ \textbf{N/A} \end{tabular}$

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the TMDLs Completed List because a plan to implement the TMDL has not been adopted or approved even

Region 1: South Fork Eel River Sedimentation/Siltation

Water Body South Fork Eel River

Stressor/Media/Beneficial Use Sedimentation-Siltation/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

N/A

Linkage between measurement endpoint

and benefical use or standard

N/A

Utility of measure for judging if standards or uses are not attained

N/A

Water Body-specific Information

USEPA has approved a TMDL for this water body-pollutant combination.

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program N/A

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the TMDLs Completed List because a plan to implement the TMDL has not been adopted or approved even

Region 1: South Fork Trinity River/Hayfork Creek Sedimentation/Siltation

Water Body South Fork Trinity River/Hayfork Creek

Stressor/Media/Beneficial Use Sedimentation-Siltation/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

N/A

Linkage between measurement endpoint

and benefical use or standard

N/A

Utility of measure for judging if standards or uses are not attained

N/A

Water Body-specific Information

USEPA has approved a TMDL for this water body-pollutant combination.

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program N/A

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the TMDLs Completed List because a plan to implement the TMDL has not been adopted or approved even

Region 1: Stemple Creek/Estero de San Antonio Sediment

Water Body Stemple Creek/Estero de San Antonio

Stressor/Media/Beneficial Use Sediment/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Data with a QA/QC were given the greatest weight.

Linkage between measurement endpoint and benefical use or standard

Turbidity linked to Aquatic Life Beneficial Use.

Utility of measure for judging if standards or uses are not attained

Basin Plan Water Quality objectives for sediment. Published Sedimentation Thresholds- Peer Reviewed Literature.

Water Body-specific Information Data = 5 Years (1996-2001), Data measured at site, Species or indicator

present at Site, Environmental conditions considered at site.

Data used to assess water quality

Have a narrative Objective for Sediment and Turbidity, Have data from 5

years for turbidity measurements. The data have exceeded the criteria (Published Sedimentation Thresholds- Peer Reviewed Literature). used to translate the narrative Basin Plan Water Quality Objectives for Sediment.

Spatial representation Targeted stations, 3 sites along creek

Temporal representation Data collected over 5 sampling years.

Data type Numerical data.

Use of standard method Dept. Fish and Game.

Potential Source(s) of Pollutant Soil Erosion, Nonpoint Source.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data exhibited sufficient, insufficient spatial and temporal coverage.
- 2. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 3. Data are numerical.
- 4. Standard methods were used.
- 5. Other water body- or site-specific information including the effects of season and age of the data were considered.

A TMDL was approved in 1997 for this Watershed and "sediment" was inadvertently not included as a stressor in the original 303(d) List, it should have been included. All the elements for sediment are addressed in the 1997 TMDL, but sediment was not listed as a stressor, nutrients were.

Region 1: Stemple Creek/Estero de San Antonio Sediment

RWQCB wants to amend the 303(d) list to include sediment so that the TMDL can be completed. The data have exceeded the criteria (Published Sedimentation Thresholds- Peer Reviewed Literature) used to translate the narrative Basin Plan Water Quality Objectives for sediment.

Region 1: Ten Mile River Sedimentation/Siltation

Water Body	Ten Mile River
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Stressor/Media/Beneficial Use Sedimentation-Siltation/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

N/A

Linkage between measurement endpoint

and benefical use or standard

N/A

N/A

Utility of measure for judging if standards or uses are not attained

Water Body-specific Information

USEPA has approved a TMDL for this water body-pollutant combination.

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant N/A

 $\begin{tabular}{ll} \textbf{Alternative Enforceable Program} \\ \textbf{N/A} \end{tabular}$

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the TMDLs Completed List because a plan to implement the TMDL has not been adopted or approved even

Region 1: Ten Mile River **Temperature**

Ten Mile River Water Body

Stressor/Media/Beneficial Use Temperature/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. Data with a OA/OC were given the greatest weight.

Linkage between measurement endpoint and benefical use or standard

MWAT linked to Aquatic Life Beneficial Use.

Utility of measure for judging if standards or uses are not attained Basin Plan Water Quality Objectives/Historic Temperature Ranges/Sullivan 2000 Published Temperature Thresholds-Peer Reviewed Literature.

Water Body-specific Information

Data = 7 years (93-2000), Data measured at site, Species or indicator present at Site, Environmental conditions considered at site.

Data used to assess water quality

Maximum recorded temperatures did not exceed 24 degrees at any of the locations. 31 out of the 37 locations exceeded the 14.8 criteria (Sullivan 2000). MWAT values at 17 locations exceeded the 17 degree MWAT criteria for sub-lethal effects (10% reduced growth) MWAT values at 3 of the locations exceeded the MWAT criteria for sub-lethal (20% reduced

growth).

Spatial representation Data were available from 37 locations.

Temporal representation 2 years of data were available for all of the 37 locations with the exception

of 3 of them. 5 years of data were available from 26 locations.

Data type Numerical data.

Use of standard method Unknown.

Potential Source(s) of Pollutant Streambank modification/destabilization, Removal of riparian vegetation,

Habitat modification, Nonpoint sources.

Alternative Enforceable Program

RWOCB Recommendation Watch List: Based on a letter sent from the NCRWOCB on January 31,

2002 the RWOCB feels there is insufficient information existing to list. The Maximum Weekly Average Temperature (MWAT) and the Maximum Weekly Maximum Temperature (MWMT) values for the Ten Mile River Watershed exceed the criteria values (Sullivan, 2000 Published Temperature Thresholds -Peer Reviewed Literature), that were used to translate the narrative Water Quality Objective for Region 1 for

Temperature.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or

causes the problem.

This conclusion is based on the staff findings that:

Region 1: Ten Mile River Temperature

- 1. The data exhibited sufficient spatial and temporal coverage.
- 2. Beneficial uses apply to the water body.
- 3. Water quality standard used is applicable.
- 4. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 5. Data are numerical.
- 6. Other water body- or site-specific information including the effects of season and age of the data were considered.

Most of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 1: Trinity River Sedimentation/Siltation

Water Body Trinity River

Stressor/Media/Beneficial Use Sedimentation-Siltation/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

N/A

Linkage between measurement endpoint

and benefical use or standard

N/A

Utility of measure for judging if standards or uses are not attained

N/A

Water Body-specific Information

USEPA has approved a TMDL for this water body-pollutant combination.

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant N/A

 $\begin{tabular}{ll} \textbf{Alternative Enforceable Program} \\ \textbf{N/A} \end{tabular}$

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the TMDLs Completed List because a plan to implement the TMDL has not been adopted or approved even

Region 1: Tule Lake and the Lower Klamath National Wildlife Refuge pH

Water Body

Tule Lake and the Lower Klamath National Wildlife Refuge

Stressor/Media/Beneficial Use pH/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Data with a QA/QC were given the greatest weight.

Linkage between measurement endpoint and benefical use or standard

pH linked to Aquatic Life Beneficial Use.

Utility of measure for judging if standards or uses are not attained

Basin Plan Water Quality Objectives.

Water Body-specific Information

Data = 6 years (1992-1997), Data measured at site, Species or indicator present at Site, Environmental conditions considered at site.

Data used to assess water quality

For the Klamath Straights Data showed in 1996, 10 pH exceedances out of 15 measurements (7.9-10 range), 1997 data showed 13 pH exceedances out of 15 measurements (8.1 - 10 Range). The 1992-95 data showed 3 exceedances out of 11 samples (4.6-9.12 range). For the Tule Lake Data showed in 1996 10 pH exceedances out of 15 measurements (7.5 - 10.0 range). 1997 data showed 13 exceedances out of 15 measurements and the 1992-95 the data showed 7 exceedances out of 11 samples (range 5 - 10.2).

Spatial representation

Klamath Straights-sampling station/Tule Lake-Pump D sampling station.

Temporal representation

April through October Data from 1992-1997 for Klamath and Tule Lake.

Data type

Numerical data.

Use of standard method

Unknown.

Potential Source(s) of Pollutant

Nonpoint sources, Internal nutrient cycling.

Alternative Enforceable Program

RWOCB Recommendation

List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data exhibited sufficient spatial and temporal coverage.
- 2. Beneficial uses have been established.
- 3. Water quality standard used is applicable.
- 4. Data are numerical.
- 5. Standard methods were used.
- 6. Other water body- or site-specific information including the effects of season and age of the data were considered.

Most of the water quality measurements exceeded the water quality standard. Data has shown that the pH values exceeded the WQO for pH.

Region 1: Tule Lake and the Lower Klamath National Wildlife Refuge pH

The staff confidence that standards were exceeded is high. List for pH for the portions of Tule Lake and Lower Klamath Lake National Wildlife Refuge.

Region 1: Van Duzen River/Yager Creek Sedimentation/Siltation

Van Duzen River/Yager Creek

Water Body

Stressor/Media/Beneficial Use Sedimentation-Siltation/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. N/A

Linkage between measurement endpoint

and benefical use or standard

N/A

N/A

Utility of measure for judging if

Water Body-specific Information

standards or uses are not attained

USEPA has approved a TMDL for this water body-pollutant combination.

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

N/A Data type

Use of standard method N/A

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program N/A

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the TMDLs Completed List because a plan to implement the TMDL has not been adopted or approved even

Water Bodies Proposed for the Monitoring List in Region 1

Water Body	Pollutant/Stressor	Rationale
Alder Creek		
	Sediment and Temperature	Data regarding instream conditions and sediment impact are not available in this watershed. Temperature data for Alder Creek provided by a recent survey (Pjerrou, 2001) indicate that high temperature levels may be a source of impairment of cold water fisheries in Alder Creek. Additional information on the temporal and spatial extent of elevated temperatures, including MWATs, are required to determine the extent of stream temperature impairment.
		Staff recommends conducting additional instream sediment and temperature assessments of Alder Creek to determine whether spawning and rearing habitat of cold water fisheries and other beneficial uses are impaired due to sedimentation and/or elevated temperatures.
Beith Creek		
	Sediment	Beneficial uses of concern include those associated with cold water fisheries (commercial and sport fishing, spawning, reproduction, and/or early development). Chief threats are sedimentation and increased runoff, and possibly urban runoff (Farhi, 2001) Based on the available information, it is difficult to determine whether the instream sediment conditions are impairing the cold water fishery. Additional information on instream sediment conditions, channel aggradation, and historic and current fish presence/absence is necessary to determine whether water quality objectives are being exceeded and beneficial uses impaired.
Brush Creek		
	Sediment	Data suggests low impact by fine sediments on the streambed. However, further information regarding instream sediment conditions is necessary to verify the transport capacity for Brush Creek and evaluate the conditions of the other southern Mendocino Coast streams.
		Staff recommends conducting additional instream sediment assessments in these southern Mendocino Coast streams to determine whether spawning and rearing habitat of cold water fisheries and other beneficial uses are impaired due to sediments.
Casper Creek		
	Pathogens	There is not enough data over a 30-day time period to make a determination of water quality objective exceedance for contact recreation, according to Basin Plan water quality objectives. While the results may be due to a residual effect of the sewer line break, the lack of baseline data makes it difficult to determine with any certainty. Given the anecdotal accounts of surfers getting sinusitis/ear infections, staff recommends putting Virgin Creek, Casper Creek, and Pudding Creek on the watch list and conducting baseline monitoring for pathogens to assess whether beneficial uses are threatened or impaired.
Cottaneva Cree	ek	
	Sediment	Information regarding sediment loading, instream conditions, and sediment transport capacity of these streams is insufficient to determine whether beneficial uses are impaired. Staff recommends conducting instream sediment and temperature assessments of these northern Mendocino Coast streams to determine whether beneficial uses are impaired due to sediments.

Water Body	Pollutant/Stressor	Rationale
Dehaven Cree	k	
	Sediment	Fish population data and timber harvest histories were not available for these watersheds. However, both these streams have been documented to provide historic habitat for coho salmon which are currently absent from the watersheds (Pjerrou, 2001). Due to lack of fish population data, it is difficult to determine whether the instream sediment conditions have impaired the cold water fishery and other beneficial uses. Staff recommends additional research to characterize historic fisheries conditions, as well as obtaining more information on harvest histories and instream conditions necessary for making a beneficial use impairment determination.
East Fork Trin	nity River	
	Mercury	An assessment of water quality around abandoned mine sites in Trinity County revealed that water quality standards are being met, except at the site of the Altoona mercury mine at the northern end of Trinity County above the East Fork of the Trinity River (Trinity Journal, 2001). A USGS monitoring program, to be completed in 2002, will evaluate the impact of abandoned mines such as the Altoona mine on federal lands in the Trinity River watershed. Staff recommends assessing the results of the study when available to determine whether beneficial uses are impaired by mercury.
Elk Creek		
	Sediment	Data suggests low impact by fine sediments on the streambed. However, further information regarding instream sediment conditions is necessary to verify the transport capacity for Elk Creek and evaluate the conditions of the other southern Mendocino Coast streams.
		Staff recommends conducting additional instream sediment assessments in these southern Mendocino Coast streams to determine whether spawning and rearing habitat of cold water fisheries and other beneficial uses are impaired due to sediments.
Greenwood C	reek	
	Sediment and Temperature	The most sensitive beneficial uses supported by Greenwood Creek include uses associated with the cold water fishery and municipal and domestic supply. There is conflicting evidence regarding the impairment of Greenwood Creek's instream conditions due to fine sediment. The results of all of these studies are mixed, and seem to indicate, at a minimum, the existence of localized degradation of streambed quality due to fine sediments. At this time, staff is unable to determine the contributing factors causing the impairment to the domestic water supply. It is unclear, based upon the available information, whether upstream timber harvest practices contributed to the bank erosion Furthermore, temperature data from two locations on Greenwood Creek spanning six years of record from 1992 to 2000 indicate that high temperature levels may be a source of impairment of cold water fisheries in Greenwood Creek. Based on the complicated circumstances regarding the drinking water supply, as well as the mixed information on the instream sediment conditions in Greenwood Creek, staff recommends putting Greenwood Creek on the Monitoring List for sediment. Staff also recommends that Greenwood Creek be added to the Monitoring List for temperature, and that additional temperature monitoring at more locations throughout the watershed be conducted to evaluate possible temperature impairment of the cold water fishery.
Grotzman Cre	ek	
	Sediment	Beneficial uses of concern include those associated with cold water fisheries (commercial and sport fishing, spawning, reproduction, and/or early development). Chief threats are sedimentation and increased runoff, and possibly urban runoff (Farhi,

are being exceeded and beneficial uses impaired.

2001). Based on the available information, it is difficult to determine whether the instream sediment conditions are impairing the cold water fishery. Additional

information on instream sediment conditions, channel aggradation, and historic and current fish presence/absence is necessary to determine whether water quality objectives

Water Body	Pollutant/Stressor	Rationale
Hardy Creek		
	Sediment	Information regarding sediment loading, instream conditions, and sediment transport capacity of these streams is insufficient to determine whether beneficial uses are impaired. Staff recommends conducting instream sediment and temperature assessments of these northern Mendocino Coast streams to determine whether beneficial uses are impaired due to sediments.
Howard Creek		
	Sediment	Information regarding sediment loading, instream conditions, and sediment transport capacity of these streams is insufficient to determine whether beneficial uses are impaired. Staff recommends conducting instream sediment and temperature assessments of these northern Mendocino Coast streams to determine whether beneficial uses are impaired due to sediments.
Humboldt Bay		
	PCBs and Dieldrin	Preliminary 1999-2000 data (SWRCB, 2001) from the State Mussel Watch Program (SMWP) shows levels of dieldrin and Total PCBs in transplanted California Mussels that exceed maximum tissue residue levels for enclosed bays and estuaries (Humboldt Del Norte Pier, C Street, and J Street). Given that the SMWP results are considered preliminary, and the lack of supporting information, staff recommends conducting additional monitoring at these sites for Total PCBs and dieldrin through the State Mussel Watch Program. Additional study may be conducted through the Surface Water Ambient Monitoring Program.
	Sediment	According to accounts submitted for the 303(d) List update, sedimentation from streams which drain into the Bay, such as Jacoby Creek, has led to aggradation near the mouths of these creeks (Friedrichsen, 2001). Further, elevated turbidity and suspended solids can result in decreased light penetration through the water column, impacting aquatic plants such as eelgrass and the organisms dependent on them.
		It is not clear based on the available information whether water quality objectives are being exceeded and beneficial uses impaired in Humboldt Bay. Staff recommends additional study to determine whether beneficial uses are threatened due to sedimentation in Humboldt Bay.
Juan Creek		
	Sediment	Information regarding sediment loading, instream conditions, and sediment transport capacity of these streams is insufficient to determine whether beneficial uses are impaired. Staff recommends conducting instream sediment and temperature assessments of these northern Mendocino Coast streams to determine whether beneficial uses are impaired due to sediments.
Klamath River		
	Sediment	Beneficial uses may be impaired in portions of the mainstem Klamath (particularly in the lower Klamath River) and tributaries to the Klamath River (Beaver Creek and tributaries to the Klamath below the confluence with the Trinity River have been specifically identified) due to excessive sediment loading and instream sediment conditions. Insufficient information is available at this time to make a listing determination. Staff recommends focused study of the instream sediment conditions to assess beneficial use impairment of the mainstem and tributaries.
Laguna de San	ta Rosa	
	Nutrients	Even though there are 10 water chemistry samples, there is no applicable guideline that can be used to interpret the narrative standard. Even though a phosphorus goal is not applicable in this specific situation, it is clear that the Laguna de Santa Rosa does not meet standards for low dissolved oxygen. It is also clear that nutrient concentrations are a probable cause of the low oxygen concentrations. New monitoring should be completed that identifies the contribution of nutrients and their relationship to the observed low oxygen concentrations.

Water Body	Pollutant/Stressor	Rationale
Mad River Slo	ugh	
	PCBs	Preliminary 1999-2000 data (SWRCB, 2001) from the State Mussel Watch Program (SMWP) shows levels of Total PCBs in transplanted California Mussels sampled at the mouth of Mad River Slough that exceed maximum tissue residue levels for enclosed bays and estuaries. Given that the SMWP results are considered preliminary and there is little supporting information, staff recommends conducting additional monitoring of Mad River Slough for Total PCBs through the State Mussel Watch Program. Additional study may be conducted through the Surface Water Ambient Monitoring Program.
Mallo Pass Creek		
	Sediment	Data suggests low impact by fine sediments on the streambed. However, further information regarding instream sediment conditions is necessary to verify the transport capacity for Mallo Pass Creek and evaluate the conditions of the other southern Mendocino Coast streams.
		Staff recommends conducting additional instream sediment assessments in these southern Mendocino Coast streams to determine whether spawning and rearing habitat of cold water fisheries and other beneficial uses are impaired due to sediments.
Pudding Creek		
	Pathogens	There is not enough data over a 30-day time period to make a determination of water quality objective exceedance for contact recreation, according to Basin Plan water quality objectives. While the results may be due to a residual effect of the sewer line break, the lack of baseline data makes it difficult to determine with any certainty. Given the anecdotal accounts of surfers getting sinusitis/ear infections, staff recommends putting Virgin Creek, Casper Creek, and Pudding Creek on the watch list and conducting baseline monitoring for pathogens to assess whether beneficial uses are threatened or impaired.
Russian River		•
	Diazinon	In November of 1999 results by the City of Santa Rosa were non-detect for all pesticides, including diazinon. Presented in the RWQCB November 16, 2002 303(d) List Update Recommendations report, a 1997 Department of Pesticides Regulations study reported that two of the fifty two samples from the Russian River above the reporting limit, at concentrations above that believed to be detrimental to freshwater organisms. The RWQCB recommends placing the Russian River watershed on the Watch List for diazinon, but not specifying individual tributaries.
		The tributaries of the Russian River should not be placed on the Monitoring List. The Russian River should be on the Monitoring List for diazinon.
Schooner Gulc	h	
	Sediment	Data suggests low impact by fine sediments on the streambed. However, further information regarding instream sediment conditions is necessary to verify the transport capacity for Schooner Gulch and evaluate the conditions of the other southern Mendocino Coast streams.
Shasta River		Staff recommends conducting additional instream sediment assessments in these southern Mendocino Coast streams to determine whether spawning and rearing habitat of cold water fisheries and other beneficial uses are impaired due to sediments.
2.4000 101.01	Sediment and Nutrients	Information on instream sediment and nutrient conditions available during the 303(d) List update process was insufficient to determine whether water quality objectives are being met and beneficial uses supported in the Shasta River. Staff recommends additional assessment of instream sediment conditions, to evaluate whether beneficial uses are currently impaired as a result of excessive sediment.

Water Body	Pollutant/Stressor	Rationale
Tule Lake and Lower Klamath Lake National Wildlife Refuge		
	Low Dissolved Oxygen and Unionized Ammonia	The available data are insufficient to support a listing for numeric objective exceedance. California does not have a standard for un-ionized ammonia. US EPA criteria were used for assessment of available data collected in 1996-1997. The US EPA criteria vary depending on temperature, pH and sensitive species present; the criteria become stricter as pH and temperature increase. Based on the information available during the 303(d) List update period, there are not sufficient data to list these surface waters for un-ionized ammonia. These surface waters should, however, be prioritized for additional unionized ammonia testing, including pH and water temperature. Additional work is suggested to evaluate the toxicity of un-ionized ammonia and the protection of the beneficial uses of these water bodies. In addition, the seasonal status of un-ionized ammonia concentrations should be examined.
Usal Creek		
	Sediment	The available data suggest that instream sediment conditions may contribute to a decline in the salmonid fishery. Staff recommends conducting additional instream monitoring and fish population surveys to determine whether spawning and rearing habitat of cold water fisheries and other beneficial uses are impaired due to sedimentation.
Virgin Creek		
	Pathogens	There is not enough data over a 30-day time period to make a determination of water quality objective exceedance for contact recreation, according to Basin Plan water quality objectives. While the results may be due to a residual effect of the sewer line break, the lack of baseline data makes it difficult to determine with any certainty. Given the anecdotal accounts of surfers getting sinusitis/ear infections, staff recommends putting Virgin Creek, Casper Creek, and Pudding Creek on the watch list and conducting baseline monitoring for pathogens to assess whether beneficial uses are threatened or impaired.
Wages Creek		-
	Sediment	Fish population data and timber harvest histories were not available for these watersheds. However, both these streams have been documented to provide historic habitat for coho salmon which are currently absent from the watersheds (Pjerrou, 2001). Due to lack of fish population data, it is difficult to determine whether the instream sediment conditions in Dehaven and Wages Creeks have impaired the cold water fishery and other beneficial uses. Staff recommends additional research to characterize historic fisheries conditions, as well as obtaining more information on harvest histories and instream conditions necessary for making a beneficial use impairment determination.



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Regional Water Quality Control Board SAN FRANCISCO BAY REGION (2)



SECTION 303 (d) LIST PROPOSALS



Region 2: Arroyo Hondo Diazinon

Water Body Arroyo Hondo

Stressor/Media/Beneficial Use Diazinon/Water/Aquatic Life and Drinking water uses

Data quality assessment. Extent to which data quality requirements met.

QA/QC requirement. Only data of higher overall level of information were

used.

Linkage between measurement endpoint

and benefical use or standard

Diazinon linked to Aquatic Life and Drinking water.

Utility of measure for judging if standards or uses are not attained

WQO, Basin Plan.

Water Body-specific Information This water body was erroneously added to the 1998 as part of the Urban

creek listing for Diazinon.

Data used to assess water qualityListing Factor 3 mistake made in 1998 List. This water body was found to

be not part of the Urban Creek tributaries listed on the 1998 list this creek isn't an urban creek at all. Field Reconnaissance in 2001, found this

mistake.

Spatial representation Data was spatially collected.

Temporal representation Data was temporally collected.

Data type Numerical data.

Use of standard method RWQCB methods.

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program N/A

RWQCB Recommendation Delist.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because this body was listed as a mistake and never should have been listed as an Urban

Creek.

Region 2: Arroyo Las Positas Diazinon

Water Body Arroyo Las Positas

Stressor/Media/Beneficial Use Diazinon/Water/Aquatic Life (MIGR; SPWN; (COLD); (WARM))

Data quality assessment. Extent to which data quality requirements met.

QA/QC requirement. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4) were used to list a

water body.

Linkage between measurement endpoint and benefical use or standard

Diazinon linked to Aquatic Life Uses.

Utility of measure for judging if standards or uses are not attained

WQO, Basin Plan.

Water Body-specific Information

Water Body was added to the Basin Plan in 1995 as part of the Urban Creeks. It should have been listed in 1998, along with the other Urban

Creeks for Diazinon.

Data used to assess water quality

List based on the criteria that was used to list Urban creeks in 1998. This water body should have been listed for Diazinon then, however due to an oversight by staff it was left off the 1998 list and should be placed on the

2002 list.

Spatial representation Data was collected by RWQCB field reconnaissance in 2001.

Temporal representation Data was collected by RWQCB field reconnaissance in 2001.

Data type Numerical data.

Use of standard method RWQCB methods.

Potential Source(s) of Pollutant Urban Runoff/Storm Sewers.

Alternative Enforceable Program Unknown.

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because it was an oversight to not list Arroyo Las Positas (13.5 miles) as part of the Urban

Creeks in the San Francisco region.

Region 2: Arroyo Mocho Diazinon

Arroyo Mocho Water Body

Stressor/Media/Beneficial Use Diazinon/Water/Aquatic Life (MIGR; SPWN; (COLD); (WARM))

Data quality assessment. Extent to which data quality requirements met. OA/OC requirement. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4) were used to list a

water body.

Linkage between measurement endpoint

and benefical use or standard

Diazinon linked to Aquatic Life Uses.

Utility of measure for judging if standards or uses are not attained WQO, Basin Plan.

Water Body-specific Information

Water Body was added to the Basin Plan in 1995 as part of the Urban Creeks. It should have been listed in 1998, along with the other Urban Creeks for Diazinon.

Data used to assess water quality

List based on the criteria that was used to list Urban creeks in 1998. This water body should have been listed for Diazinon then, however due to an oversight by staff it was left off the 1998 list and should be placed on the

2002 list.

Spatial representation Data was collected by RWQCB field reconnaissance in 2001.

Temporal representation Data was collected by RWQCB field reconnaissance in 2001.

Data type Numerical data.

Use of standard method RWQCB methods.

Potential Source(s) of Pollutant Urban Runoff/Storm Sewers.

Alternative Enforceable Program Unknown.

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because it was an oversight not to list Arroyo Mocho (28.5 miles) as part of the Urban

Creeks in the San Francisco region.

Region 2: Castro Cove, Richmond Mercury, Selenium, PAHs, Dieldrin

Castro Cove, Richmond Water Body

Stressor/Media/Beneficial Use Mercury, Selenium, PAHs, Dieldrin/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. Used BPTCP OA/OC.

Linkage between measurement endpoint

and benefical use or standard

Toxicity linked to aquatic life beneficial use.

Utility of measure for judging if standards or uses are not attained Toxicity test results (and ERM quotient) for sediment chemistry used.

Water Body-specific Information

Data = 1 year.

Data used to assess water quality

Elevated sediment chemistry (ERM quotient), but only 1 sample, 0 and 33% amphipod survival--2 tests, significant urchin toxicity--1/3 samples, no benthic analyses.

Spatial representation

Samples were analyzed from of a number of sites in the Cove. The spatial extent of the chemical and sediment toxicity measurements are presented in the Consolidated Toxic Hot Spots Cleanup Plan.

Temporal representation

Use of standard method

Data collected between 9/94-5/95.

Data type

BPTCP methods used.

Numerical data.

Potential Source(s) of Pollutant

Point sources and possibly urban runoff.

Alternative Enforceable Program

The Consolidated Toxic Hot Spots Cleanup Plan presents a variety of corrective actions that need to be completed in order for the cove to be remediated. Responsible parties have been identified.

ChevronTexaco has developed a remedial plan that will remove the polluted sediments. The plan was submitted to the RWOCB on June 7. 2002. The company is ready to implement the remedial plan as soon as a final decision on the disposal location of the removed sediments can be made. The company has also committed to spending approximately \$16,000,000 to implement the remedial plan and to fulfill their responsibility to address the polluted sediments. The RWOCB staff estimate the cleanup order will be issued within one year.

RWQCB Recommendation

Monitoring List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWOCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the Enforceable Program list because applicable water quality standards are exceeded and another program is addressing the problem.

The water quality problem is being addressed by ChevronTexaco in partnership with the RWQCB. ChevronTexaco is committed to cleaning up Castro Cove as described in a remediation plan developed with the

Region 2: Castro Cove, Richmond Mercury, Selenium, PAHs, Dieldrin

RWQCB. The company is in the final stages of developing an enforcement order with the RWQCB to address the polluted sediments. Together they have developed a remedial action plan, which is estimated to cost \$16,000,000. This plan would remove polluted sediments from the Castro Cove and stands ready to be implemented as soon as a final decision on the disposal location of the removed sediments can be made.

Region 2: Central Basin, San Francisco Mercury, PAHs

Water Body Central Basin, San Francisco

Stressor/Media/Beneficial Use Mercury, PAHs/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Used BPTCP OA/OC.

Linkage between measurement endpoint and benefical use or standard

Sediment toxicity linked to aquatic life beneficial uses.

Utility of measure for judging if standards or uses are not attained

Toxicity test results (and ERM quotient) for sediment chemistry used.

Water Body-specific Information Data = 2 years.

Data used to assess water quality Slightly elevated sediment chemistry (ERM quotient), only 1 test,

significant amphipod toxicity--1/2 tests significant, urchin toxicity--1/2

samples, no benthic analyses.

Spatial representation Spatial distribution of samples is described in the report: Sediment quality

and biological effects in San Francisco Bay (Bay Protection and Toxic

Cleanup Program), dated August 1998.

Temporal representation Temporal distribution of samples is described in the report: Sediment

quality and biological effects in San Francisco Bay (Bay Protection and

Toxic Cleanup Program), dated August 1998.

Data type Numerical data.

Use of standard method BPTCP methods used.

Potential Source(s) of Pollutant Not identified.

Alternative Enforceable Program

This site was identified as a moderate priority in the Consolidated Toxic

Hot Spots Cleanup Plan. Remediation planning has yet to be completed.

RWQCB Recommendation Monitoring List.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or

causes the problem.

This conclusion is based on the staff findings that:

1. The data is considered to be of adequate quality.

- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses are applicable and apply to this water body.
- 4. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 5. Data are numerical.
- 6. Standard methods were used.

Region 2: Central Basin, San Francisco Mercury, PAHs

An adequate amount of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 2: Islais Creek PCBs, Chlordane, Dieldrin, Endosulfan sulfate, PAHs, anthropogenically +

Water Body

Islais Creek

Stressor/Media/Beneficial Use PCBs, Chlordane, Dieldrin, Endosulfan sulfate, PAHs, anthropogenically enriched Hydrogen sulfide and Ammonia/Sediment/Aquatic Life

Data quality assessment. Extent to used BPTCP QA/QC. Data evaluation was based on USEPA guidelines **which data quality requirements met.**Used BPTCP QA/QC. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only

for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4) were used to list a water body.

SWRCB received "Sediment Investigations at Islais Creek and Mission Creek-1998-1999-2000" provided by SFPUC. Appropriate QA procedures were followed.

Linkage between measurement endpoint and benefical use or standard

Sediment Toxicity and benthic community effects are linked to aquatic life beneficial uses.

Utility of measure for judging if standards or uses are not attained

Toxicity test results (and ERM quotient) for sediment chemistry used. WOO in the Basin Plan used.

Water Body-specific Information

Data = 3 years (94-97), Data measured at the site, Environmental Conditions considered at site.

Data used to assess water quality

Elevated sediment chemistry (ERM quotient), Significant amphipod toxicity in 3/4 samples (75%), Significant urchin toxicity in 4/5 samples (80%), Relative benthic index = 0.22, 0.25, 0.43 (3 benthic gradient samples).

SWRCB received "Sediment Investigations at Islais Creek and Mission Creek-1998-1999-2000" provided by SFPUC. Six transects were monitored over three years and at corresponding sampling stations for each transect (i.e. 1N, 1S). Excluding stations 5 and 6 (No data points in exceedance), the data shows 6/16 sampling stations (1N/S-4N/S) indicate sediment toxicity and amphipod survival below the BPTCP reference tolerance limit. Lead, mercury and zinc all consistently exceeded the ERM values at several stations in all three years surveys conducted. Levels of PAHs, PCBs, Chlordane, DDT and Dieldrin were at the highest detected levels at transect sampling stations 1N/S-4N/S with some pollutants in exceedance of the ERMs in 1998 only.

Spatial representation Data was spatially collected over the length of the Creek.

Temporal representation Data was collected from 9/94- 9/97.

Data type Numerical data.

Use of standard method BPTCP methods used.

Potential Source(s) of Pollutant Combined Sewer Overflows/Industrial Point Sources.

Alternative Enforceable Program

The Consolidated Toxic Hot Spots Cleanup Plan presents a variety of corrective actions that need to be completed in order for the cove to be

Region 2: Islais Creek PCBs, Chlordane, Dieldrin, Endosulfan sulfate, PAHs, anthropogenically +

remediated. Responsible parties have been identified.

RWQCB Recommendation

List: Current application of other regulatory authorities and the effectsbased nature of the listing would give this listing a low-priority.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and pollutants contribute to or cause the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply and are applicable.
- 4. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 5. Data are numerical.
- 6. Standard methods were used.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate. Even though there is an alternative enforceable program in place, corrective actions to remedy the problem have yet to be implemented. Based on the report provided by SFPUC staff recommend that the extent of impairment should include the portion of Islais Creek from the beginning of the creek up to and encompassing study transect sampling stations 1N/S-- 4N/S.

Region 2: Lake Merritt

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Water Body Lake Merritt

Stressor/Media/Beneficial Use Trash/Water/Aquatic Habitat and REC uses

Data quality assessment. Extent to which data quality requirements met.

No quality assurance information was provided.

Linkage between measurement endpoint and benefical use or standard

Trash linked to Aquatic Habitat and REC uses.

Utility of measure for judging if standards or uses are not attained

Photographs can indicate gross impacts on beneficial uses and whether standards have been exceeded. Measurements of the amounts of trash can provide a relative measure of the potential for nuisance.

Water Body-specific Information

Photographs were submitted that were taken on one occasion. The data for trash removed from the Lake was collect by Lake Merritt Institute volunteers between 1998 and 2001.

Data used to assess water quality

Lake Merritt volunteers have documented trash removal from the Lake. Large amounts of trash were collected in the Lake as follows:

Year	Amount (pounds)
1998	30,961
1999	39,233
2000	40,900
2001	20,640 (4 months only)

Six photographs were submitted depicting what appeared to be locations in the Lake. The trash included accumulations of plastic bottles, styrofoam cups, paper wrappers, wood debris, aluminum cans, and other unidentifiable debris. A photograph was submitted depicting a dead bird in the lake wrapped in debris. Another bird death is reported as being caused by entanglement in a length of rope.

Spatial representation Unknown.

Temporal representation Trash removal data collected monthly over 3 1/3 years. Cannot tell when

the bird deaths occurred.

Data type Both numerical and non-numerical data.

Use of standard methodNo methods described.

Potential Source(s) of Pollutant Urban Runoff/Storm Sewers.

Alternative Enforceable Program Possibly the urban storm water permits.

RWQCB Recommendation Change in listed water body. Change pollutant from Floating Material to

Trash.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body pollutant should be changed in this already listed water body,

from Floating Material to Trash.

Region 2: Marina Lagoon (San Mateo Co.) High Coliform Count

Water Body Marina Lagoon (San Mateo Co.)

Stressor/Media/Beneficial Use High Coliform Count/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

San Mateo County Environmental Health Dept. Beach Monitoring, Surfrider data/lab QA/QC used. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4)

were used to list a water body.

Linkage between measurement endpoint and benefical use or standard

High Coliform Counts are linked to REC-1 uses.

Utility of measure for judging if standards or uses are not attained

Basin Plan objectives and Ocean Plan water contact standards used.

Water Body-specific Information

Data = 2 years (98-2000), Data measured at the site, Species or Indicator present at site, Environmental Conditions considered at site.

Data used to assess water quality

192 samples for total coliform there were Basin Plan Objectives violated in 1% of the samples. Basin Plan Objectives violated in 50% of samples for total coliform median. Basin Plan Objectives violated in 10% of samples for fecal coliform geomean. Basin Plan Objectives violated in 33% of samples for fecal coliform 90th percentile in dry weather months. Basin Plan Objectives violated for E. coli data in 31% of the samples.

Spatial representation

Data was spatially collected.

Temporal representation

Data was collected, from 10/7/98-10/31/00.

Data type

Numerical data.

Use of standard method

San Mateo County Environmental Health Dept. Beach Monitoring, Surfrider data/lab methods, RWQCB.

Potential Source(s) of Pollutant

Urban Runoff/Storm Sewers, Nonpoint Source.

Alternative Enforceable Program

Unknown.

RWQCB Recommendation

List

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality objective used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.

Region 2: Marina Lagoon (San Mateo Co.) High Coliform Count

7. Other water body- or site-specific information including the effects of season and age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 2: Mission Creek Silver, Chromium, Copper, Mercury, Lead, Zinc, Chlordane, Chlorpyrifos +

Water Body	Mission Creek
Stressor/Media/Beneficial Use	Silver, Chromium, Copper, Mercury, Lead, Zinc, Chlordane, Chlorpyrifos Dieldrin, Mirex, PCBs, PAHs, anthropogenically enriched Hydrogen sulfide and Ammonia/Sediment/Aquatic Life
Data quality assessment. Extent to which data quality requirements met.	Used BPTCP QA/QC. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4) were used to list a water body.
	SWRCB received "Sediment Investigations at Islais Creek and Mission Creek-1998-1999-2000" provided by SFPUC. Appropriate QA procedures were followed.
Linkage between measurement endpoint and benefical use or standard	Sediment toxicity and benthic community effects are linked to aquatic life beneficial uses.
Utility of measure for judging if standards or uses are not attained	Toxicity test results (and ERM quotient) for sediment chemistry used.
Water Body-specific Information	Data = 2 years (95-97), Data measured at the site, Environmental Conditions considered at site.
Data used to assess water quality	BPTCP Data: Elevated sediment chemistry (ERM quotient) significant amphipod toxicity, $3/5$ tests (60%) significant urchin toxicity, $3/5$ samples (60%), relative benthic index = 0.00, 0.34, and 0.65 (3 benthic gradient samples).
	SWRCB received "Sediment Investigations at Islais Creek and Mission Creek-1998-1999-2000" provided by SFPUC. Six transects were monitored over three years and at corresponding North and South sampling stations for each transect (i.e. 1N, 1S). Excluding stations 5 and 6 (No data for 1999 and 2000), the data shows 4/20 sampling stations (1N/S-4N/S) indicate sediment toxicity and amphipod survival below the BPTCP reference tolerance limit . Lead, mercury, zinc, silver and nickel all exceeded the ERM values at several stations in all three years surveys conducted. Levels of PAHs, PCBs, Chlordane, DDT and Dieldrin were at the highest detected levels at transect sampling stations 1N/S-4N/S with some pollutants in exceedance of the ERMs in 1998 only.
Spatial representation	Data was spatially collected.
Temporal representation	Data was collected, from 5/95-4/97.
Data type	Numerical data.
	BPTCP methods used.
Use of standard method	DETCE methods used.

The Consolidated Toxic Hot Spots Cleanup Plan presents a variety of corrective actions that need to be completed in order for the cove to be

Alternative Enforceable Program

Region 2: Mission Creek Silver, Chromium, Copper, Mercury, Lead, Zinc, Chlordane, Chlorpyrifos +

remediated. Responsible parties have been identified.

RWQCB Recommendation

List: Current application of other regulatory authorities and the effectsbased nature of the listing would give this listing a low-priority.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and pollutants contribute to or cause the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply and are applicable.
- 4. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 5. Data are numerical.
- 6. Standard methods were used.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate. Even though there is an alternative enforceable program in place, corrective actions to remedy the problem have yet to be implemented. Based on the report provided by SFPUC staff recommend that the extent of impairment should include the portion of Mission Creek from the beginning of the creek up to approximately 4th Street (encompassing study transect sampling stations 1N/S-- 4N/S).

Region 2: Oakland Inner Harbor (Fruitvale site) Chlordane, PCBs

Water Body Oakland Inner Harbor (Fruitvale site)

Stressor/Media/Beneficial Use Chlordane, PCBs/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Used BPTCP OA/OC.

Linkage between measurement endpoint and benefical use or standard

Sediment Toxicity linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

Toxicity test results (ERM quotient) for sediment used.

Water Body-specific Information Data = 2 years. Data are 5 years old.

Data used to assess water quality Slightly elevated sediment chemistry (ERM quotient), but only 1 sample,

significant amphipod toxicity 2/2 tests, no significant urchin toxicity 2

tests, no benthic analyses.

Spatial representation Spatial distribution of samples is described in the report: Sediment quality

and biological effects in San Francisco Bay (Bay Protection and Toxic

Cleanup Program), dated August 1998.

Temporal representation Data collected during 4/95- 4/97.

Data type Numerical data.

Use of standard method BPTCP methods used.

Potential Source(s) of Pollutant Not identified.

Alternative Enforceable Program

This site was identified as a moderate priority in the Consolidated Toxic

Hot Spots Cleanup Plan. Remediation planning has yet to be completed.

RWQCB Recommendation Monitoring List.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or

causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses are applicable and apply to this water body.
- 4. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 5. Data are numerical.
- 6. Standard methods were used.

An adequate amount of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 2: Oakland Inner Harbor (Pacific Dry-dock Yard 1 site) Copper, Lead, Mercury, Zinc, TBT, ppDDE, PCBs, PAHs, Chlorpyrifos, Chl +

Water Body Oakland Inner Harbor (Pacific Dry-dock Yard 1 site)

Stressor/Media/Beneficial Use Copper, Lead, Mercury, Zinc, TBT, ppDDE, PCBs, PAHs, Chlorpyrifos,

Chlordane, Dieldrin, Mirex/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Used BPTCP QA/QC.

Linkage between measurement endpoint and benefical use or standard

Sediment toxicity linked to aquatic life beneficial uses.

Utility of measure for judging if standards or uses are not attained

Toxicity test results (and ERM quotient) for sediment chemistry used.

Water Body-specific Information Data = 2 years. Data are 5 years old.

Data used to assess water quality Elevated sediment chemistry (ERM quotient), significant amphipod

toxicity 2/4 tests, no significant urchin toxicity (4 tests), no benthic

analyses.

Spatial representation Spatial distribution of samples is described in the report: Sediment quality

and biological effects in San Francisco Bay (Bay Protection and Toxic

Cleanup Program), dated August 1998.

Temporal representation Data collected during 4/95- 4/97.

Data type Numerical data.

Use of standard method BPTCP methods used.

Potential Source(s) of Pollutant Not identified.

Alternative Enforceable Program

This site was identified as a moderate priority in the Consolidated Toxic

Hot Spots Cleanup Plan. Remediation planning has yet to be completed.

RWQCB Recommendation Monitoring List.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or

causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses are applicable and apply to this water body.
- 4. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 5. Data are numerical.
- 6. Standard methods were used.

An adequate amount of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 2: Pacific Ocean at Baker Beach High Coliform Count

Water Body Pacific Ocean at Baker Beach

Stressor/Media/Beneficial Use High Coliform Count/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

USEPA Storet data. QA/QC requirement. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and

4) were used to list a water body.

Linkage between measurement endpoint

and benefical use or standard

Total and fecal coliform linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO, Ocean Plan used.

Water Body-specific Information

Data = 11 months (7/97-5/98), Data measured at the site, Species or Indicator present at site, Environmental Conditions considered at site.

Data used to assess water quality

Data = 164 samples total. Ocean Plan objectives violated in 9.7% of the samples for total coliform in dry-weather months. Combined sewer overflow events are not considered because all CSOs in the vicinity have been directed away from Lobos Creek drainage onto Baker Beach.

Spatial representation Data was spatially collected.

Temporal representation Data was collected, from 7/1/97-5/29/98.

Data type Numerical data.

Use of standard method USEPA methods.

Potential Source(s) of Pollutant Urban Runoff/Storm Sewers, Combined Sewer Overflows.

Alternative Enforceable Program Unknown.

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the Monitoring List because the data are inadequate to determine if applicable water quality standards are exceeded.

Region 2: Pacific Ocean at China Beach Beach Closures

Water Body Pacific Ocean at China Beach

Stressor/Media/Beneficial Use Beach Closures/Water/REC-1.

Data quality assessment. Extent to which data quality requirements met.

QA/QC requirement. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4) were used to list a water body.

Linkage between measurement endpoint and benefical use or standard

Beach Closures linked to REC-1.

Utility of measure for judging if standards or uses are not attained

USEPA Guidance (1996).

Water Body-specific Information

Data = 2000 Beach closure data.

Data used to assess water quality

The data show that no beach closures occurred on this beach from 1998-2002. The original RWQCB recommendation to list was based on rainfall and combined sewer overflow events. This data must not be considered since all CSOs in the city are treated and therefore do not result in beach closures. The recommendation was also based on NRDC data which lead the RWQCB to make recommendations on beach advisories or warnings, not actual beach closures.

Spatial representation

Temporal representation

Data type

Use of standard method

Potential Source(s) of Pollutant

Urban Runoff/Storm Sewers, Combined Sewer Overflows.

Alternative Enforceable Program

Unknown.

RWOCB Recommendation

The SFRWQCB discovered erroneous available information on which they relied to make recommendations to the 303(d) list. Specifically, "Testing the Waters, 2000", authored by the Natural Resources Defense Council (NRDC), intermingled posted beach warnings with beach closures, leading us to make recommendations for listing for beach closures that were based only on beach advisories or warnings. The EPA guidance used in the 303(d) analysis is only pertinent to evaluation of beach closure information, where more than one beach closure per year, or one beach closure over one week duration, both constitute adequate basis for inclusion in the 303(d) list. Therefore, the RWQCB re-examined the original rationale for beach closure-related listings, to verify whether or not the recommendations were made on posted warnings or actual closures. They recommend to exclude Pacific Ocean at China Beach from listing.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because

Region 2: Pacific Ocean at China Beach Beach Closures

applicable water quality standards are not exceeded. This water body should be excluded from the 303(d) list because the indicator used did not characterize beach conditions or represent standards exceedances.

Region 2: Pacific Ocean at Fitzgerald Marine Reserve High Coliform Count

Water Body Pacific Ocean at Fitzgerald Marine Reserve

Stressor/Media/Beneficial Use High Coliform Count/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

San Mateo County Environmental Health Dept. Beach Monitoring, Surfrider data/lab QA/QC used. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4)

were used to list a water body.

Linkage between measurement endpoint and benefical use or standard

Total and Fecal Coliform linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO Ocean Plan and Basin Plan used.

Water Body-specific Information

Data = 3 years (5/98-10/00), Data measured at the site, Species or Indicator present at site, Environmental Conditions considered at site.

Data used to assess water quality

Data = 49 samples total. Ocean Plan Objectives violated in 43% of the samples for total coliform in dry-weather months. Basin Plan Objectives were violated in 16% of samples for log mean, and in 73% of samples in dry weather months.

Spatial representation

Data was spatially collected.

Temporal representation

Data was collected, from 5/98-10/98, 5/99-10/99 and 5/00-10/00.

Data type

Numerical data.

Use of standard method

San Mateo County Environmental Health Department. Beach Monitoring, Surfrider data/lab methods, RWQCB.

Potential Source(s) of Pollutant

Nonpoint Source.

Alternative Enforceable Program

Unknown.

RWQCB Recommendation

List

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality objective used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.

Region 2: Pacific Ocean at Fitzgerald Marine Reserve High Coliform Count

8. Other water body- or site-specific information including the effects of season, and age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 2: Pacific Ocean at Fitzgerald Marine Reserve **Beach Closures**

Pacific Ocean at Fitzgerald Marine Reserve Water Body

Stressor/Media/Beneficial Use Beach Closures/Water/REC-1

Data quality assessment. Extent to which data quality requirements met. San Mateo County Environmental Health Dept. Beach Monitoring, Surfrider data/lab QA/QC used. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4)

were used to list a water body.

Linkage between measurement endpoint

and benefical use or standard

Fecal Coliform linked to REC-1.

Utility of measure for judging if standards or uses are not attained WQO Basin Plan and Ocean Plan used.

Water Body-specific Information

Data = 2000 Beach closure data.

Data used to assess water quality

The information used to recommend this listing from the NRDC report was based on the SWRCB's year 2000 beach advisory postings, and not actual closures. A review of the SWRCB information on San Mateo County beaches shows that the listings were recommended in error. All of the information in the NRDC report was based on SWRCB's year 2000 beach advisory "postings", and not actual closures.

Spatial representation

Temporal representation

Data type

San Mateo County Environmental Health Dept. Beach Monitoring, Use of standard method

Surfrider data/lab methods, RWQCB.

Potential Source(s) of Pollutant

Nonpoint Source.

Alternative Enforceable Program

Unknown.

RWQCB Recommendation

We recommend excluding five San Mateo County beaches from the 303(d) list recommendations for beach closures. The RWQCB recommends excluding Pacific Ocean at Fitzgerald Marine Reserve from listing.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded. This water body should be excluded from the 303(d) list because the indicator used did not characterize beach conditions or represent standards exceedances.

Region 2: Pacific Ocean at Fort Funston Beach Beach Closures

Water Body Pacific Ocean at Fort Funston Beach

Stressor/Media/Beneficial Use Beach Closures/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

QA/QC requirement. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4) were used to list a water body.

Linkage between measurement endpoint and benefical use or standard

Beach Closures linked to REC-1.

Utility of measure for judging if standards or uses are not attained

USEPA Guidance (1996).

Water Body-specific Information

Data = 2000 Beach closure data.

Data used to assess water quality

The data show that no beach closures occurred on this beach from 1998-2002. The original RWQCB recommendation to list was based on rainfall and combined sewer overflow events. This data must not be considered since all CSOs in the city are treated and therefore do not result in beach closures. The recommendation was also based on NRDC data which lead the RWQCB to make recommendations on beach advisories or warnings, not actual beach closures.

Spatial representation

Temporal representation

Data type

Use of standard method RWQCB methods.

Potential Source(s) of Pollutant Urban Runoff/Storm Sewers, Combined Sewer Overflows.

Alternative Enforceable Program Unknown.

RWQCB Recommendation The SFRWQCB discovered erroneous available information on which they

relied to make recommendations to the 303(d) list. Specifically, "Testing the Waters, 2000", authored by the Natural Resources Defense Council (NRDC), intermingled posted beach warnings with beach closures, leading us to make recommendations for listing for beach closures that were based only on beach advisories or warnings. The EPA guidance used in the 303(d) analysis is only pertinent to evaluation of beach closure information, where more than one beach closure per year, or one beach closure over one week duration, both constitute adequate basis for inclusion in the 303(d) list. Therefore, the RWQCB re-examined the original rationale for beach closure-related listings, to verify whether or not the recommendations were made on posted warnings or actual closures. They were not made on actual beach closures. They recommend to exclude

Pacific Ocean at Fort Funston Beach from listing.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the

Region 2: Pacific Ocean at Fort Funston Beach Beach Closures

water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded. This water body should be excluded from the 303(d) list because the indicator used did not characterize beach conditions or represent standards exceedances.

Region 2: Pacific Ocean at Ocean Beach Beach Closures

Water Body Pacific Ocean at Ocean Beach

Stressor/Media/Beneficial Use Beach Closures/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

QA/QC requirement. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4) were used to list a water body.

Linkage between measurement endpoint and benefical use or standard

Beach Closures linked to REC-1.

Utility of measure for judging if standards or uses are not attained

USEPA Guidance (1996).

Water Body-specific Information

Data = 2000 Beach closure data.

Data used to assess water quality

The data show that no beach closures occurred on this beach from 1998-2002. The original RWQCB recommendation to list was based on rainfall and combined sewer overflow events. This data must not be considered since all CSOs in the city are treated and therefore do not result in beach closures. The recommendation was also based on NRDC data which lead the RWQCB to make recommendations on beach advisories or warnings, not actual beach closures.

Spatial representation

Temporal representation

Data type

Use of standard method RWQCB methods.

Potential Source(s) of Pollutant Urban Runoff/Storm Sewers, Combined Sewer Overflows.

Alternative Enforceable Program

Unknown.

RWQCB Recommendation

The SFRWQCB discovered erroneous available information on which they relied to make recommendations to the 303(d) list. Specifically, "Testing the Waters, 2000", authored by the Natural Resources Defense Council (NRDC), intermingled posted beach warnings with beach closures, leading us to make recommendations for listing for beach closures that were based only on beach advisories or warnings. The EPA guidance used in the 303(d) analysis is only pertinent to evaluation of beach closure information, where more than one beach closure per year, or one beach closure over one week duration, both constitute adequate basis for inclusion in the 303(d) list. Therefore, the RWQCB had to re-examine the original rationale for beach closure-related listings, to verify whether or not the recommendations were made on posted warnings or actual closures. They were not made on actual closures and they recommend to exclude Pacific Ocean at Ocean Beach from listing.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the

Region 2: Pacific Ocean at Ocean Beach Beach Closures

water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded. This water body should be excluded from the 303(d) list because the indicator used did not characterize beach conditions or represent standards exceedances.

Region 2: Pacific Ocean at Pacifica State Beach (Linda Mar or San Ped + High Coliform Count

Water Body Pacific Ocean at Pacifica State Beach (Linda Mar or San Pedro Beach)

Stressor/Media/Beneficial Use High Coliform Count/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

San Mateo County Environmental Health Department, Beach Monitoring, Surfrider data/lab QA/QC used. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4)

were used to list a water body.

Linkage between measurement endpoint and benefical use or standard

Total and Fecal Coliform linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO Ocean Plan used.

Water Body-specific Information

Data = 3 years (1/98-1/01), Data measured at the site, Species or Indicator present at site, Environmental Conditions considered at site.

Data used to assess water quality

Spatial representation

Data = 36 wet weather samples. Ocean Plan Objectives violated in 22% of samples for total coliform in wet-weather months. This listing is driven by wet weather only. Ocean Plan objectives violated in 19% of samples for fecal coliform. No exceedances between May and October. Wet weather exceedances.

Temporal representation Data was collected from 1/98-1/01.

Data type Numerical data.

Use of standard method San Mateo County Environmental Health Department, Beach Monitoring,

Data was spatially collected.

Surfrider data/lab methods, RWQCB.

Potential Source(s) of Pollutant Urban Runoff/Storm Sewers, Nonpoint Source.

Alternative Enforceable Program Unknown.

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality objective used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.

Region 2: Pacific Ocean at Pacifica State Beach (Linda Mar or San Ped + High Coliform Count

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

^{7.} Standard methods were used.

^{8.} Other water body- or site-specific information including the effects of season and age of the data were considered.

Region 2: Pacific Ocean at Pacifica State Beach (Linda Mar or San Ped + **Beach Closures**

Water Body

Pacific Ocean at Pacifica State Beach (Linda Mar or San Pedro Beach)

Stressor/Media/Beneficial Use Beach Closures/Water/REC-1

Data quality assessment. Extent to which data quality requirements met. San Mateo County Environmental Health Department, Beach Monitoring, Surfrider data/lab QA/QC used. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4)

were used to list a water body.

Linkage between measurement endpoint

and benefical use or standard

Fecal Coliform linked to REC-1.

Utility of measure for judging if standards or uses are not attained WQO Ocean Plan used.

Water Body-specific Information

Data = 2000 Beach closure data.

Data used to assess water quality

The data show that since Spring of 1998 no closures at this beach have been reported. The information used to recommend this listing from the NRDC report was based on the SWRCB's year 2000 beach advisory postings, and not actual closures.

Spatial representation

Temporal representation

Data type

Use of standard method San Mateo County Environmental Health Dept. Beach Monitoring,

Surfrider data/lab methods, RWQCB.

Potential Source(s) of Pollutant

Urban Runoff/Storm Sewers, Nonpoint Source.

Alternative Enforceable Program

Unknown.

RWQCB Recommendation

A review of the SWRCB information on San Mateo County beaches shows that the listings were recommended in error. All of the information in the NRDC report was based on SWRCB's year 2000 beach advisory "precautionary postings", and not actual closures. As such, the RWQCB recommends excluding five San Mateo County beaches from the 303(d) list recommendations for beach closures. The RWQCB recommends excluding Pacific Ocean at Pacifica State Beach from listing.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded. This water body should be excluded from the 303(d) list because the indicator used did not characterize beach conditions or represent standards exceedances.

Region 2: Pacific Ocean at Pillar Point Beach Beach Closures

Water Body Pacific Ocean at Pillar Point Beach

Stressor/Media/Beneficial Use Beach Closures/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

San Mateo County Environmental Health Department, Beach Monitoring, Surfrider data/lab QA/QC used. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4)

were used to list a water body.

Linkage between measurement endpoint

and benefical use or standard

Fecal Coliform linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO, Ocean Plan.

Water Body-specific Information

Data = 2000 Beach closure data.

Data used to assess water quality

The information used to recommend this listing from the NRDC report was based on the SWRCB's year 2000 beach advisory postings, and not actual closures.

Spatial representation

Temporal representation

Data type

Use of standard method San Mateo County Environmental Health Dept. Beach Monitoring,

Surfrider data/lab methods, RWQCB.

Potential Source(s) of Pollutant

Nonpoint Source.

Alternative Enforceable Program

Unknown.

RWQCB Recommendation

A review of the SWRCB information on San Mateo County beaches shows that the listings were recommended in error. All of the information in the NRDC report was based on SWRCB's year 2000 beach advisory "precautionary postings", and not actual closures. As such, the RWQCB recommends excluding five San Mateo County beaches from the 303(d) list recommendations for beach closures. The RWQCB recommends excluding Pacific Ocean at Pillar Point Beach from listing.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded. This water body should be excluded from the 303(d) list because the indicator used did not characterize beach conditions or represent standards exceedances.

Region 2: Pacific Ocean at Pillar Point Beach High Coliform Count

Water Body Pacific Ocean at Pillar Point Beach

Stressor/Media/Beneficial Use High Coliform Count/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

San Mateo County Environmental Health Department, Beach Monitoring, Surfrider data/lab QA/QC used. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4)

were used to list a water body.

Linkage between measurement endpoint and benefical use or standard

Total and Fecal Coliform linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO Ocean Plan used.

Water Body-specific Information

Data = 3 years (5/98-10/00), Data measured at the site, Species or Indicator present at site, Environmental Conditions considered at site.

Data used to assess water quality

Data = 143 samples total. Ocean Plan objectives violated in 40% of samples for total coliform in dry-weather months. Ocean Plan objectives violated in 9% of the samples for log mean and 35% of the samples for fecal coliform in dry weather months.

Spatial representation Data was spatially collected.

Temporal representation Data was collected, from 5/98-10/98, 5/99-10/99 and 5/00-10/00.

Data type Numerical data.

Use of standard methodSan Mateo County Environmental Health Dept. Beach Monitoring,

Surfrider data/lab methods, RWQCB.

Potential Source(s) of Pollutant Nonpoint Source.

Alternative Enforceable Program Unknown.

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or

causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality objective used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.

Region 2: Pacific Ocean at Pillar Point Beach High Coliform Count

8. Other water body- or site-specific information including the effects of season and age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 2: Pacific Ocean at Rockaway Beach High Coliform Count

Water Body Pacific Ocean at Rockaway Beach

Stressor/Media/Beneficial Use High Coliform Count/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

San Mateo County Environmental Health Dept. Beach Monitoring, Surfrider data/lab QA/QC used. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4)

were used to list a water body.

Linkage between measurement endpoint and benefical use or standard

Total and Fecal Coliform linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO Ocean Plan used.

Water Body-specific Information

Data = 1 year (2000), Data measured at the site, Species or Indicator present at site, Environmental Conditions considered at site.

Data used to assess water quality

Data = 23 samples total. Ocean Plan objectives violated in 13% of samples

for total coliform in dry-weather months.

Spatial representation

Data was spatially collected.

Temporal representation

Data was collected, from 5/00-10/00.

Data type

Numerical data.

Use of standard method

San Mateo County Environmental Health Dept. Beach Monitoring, Surfrider data/lab methods, RWQCB.

Potential Source(s) of Pollutant

Urban Runoff/Storm Sewers, Nonpoint Source.

Alternative Enforceable Program

Unknown.

RWQCB Recommendation

List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality objective used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body- or site-specific information including the effects of season and age of the data were considered.

Region 2: Pacific Ocean at Rockaway Beach High Coliform Count

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 2: Pacific Ocean at San Gregorio Beach High Coliform Count

Water Body Pacific Ocean at San Gregorio Beach

Stressor/Media/Beneficial Use High Coliform Count/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

San Mateo County Environmental Health Dept. Beach Monitoring, Surfrider data/lab QA/QC used. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4)

were used to list a water body.

Linkage between measurement endpoint

and benefical use or standard

Total and Fecal Coliform linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO Ocean Plan used

Water Body-specific Information Data = 3 years (98-2001), Data measured at the site, Species or Indicator

present at site, Environmental Conditions considered at site.

Data used to assess water quality Data = 56 samples for total coliform, 23 samples for fecal coliform. Ocean

Plan objectives violated in 5% of samples for total coliform in combined dry- and wet-weather months. Ocean Plan objectives violated in 8% samples for fecal coliform, wet-weather only. No exceedances between

May and October. Listing driven by wet weather exceedances.

Spatial representation Data was spatially collected.

Temporal representation Data was collected, from 9/98-3/01.

Data type Numerical data.

Use of standard methodSan Mateo County Environmental Health Dept. Beach Monitoring,

Surfrider data/lab methods, RWQCB.

Potential Source(s) of Pollutant Nonpoint Source.

Alternative Enforceable Program Unknown.

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the Monitoring List because the data are inadequate to determine if applicable water quality standards are exceeded.

Region 2: Pacific Ocean at Sharp Park Beach Beach Closures

Water Body Pacific Ocean at Sharp Park Beach

Stressor/Media/Beneficial Use Beach Closures/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

QA/QC requirement. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4) were used to list a

water body.

Linkage between measurement endpoint

and benefical use or standard

Beach Closures linked to REC-1.

Utility of measure for judging if standards or uses are not attained

USEPA Guidance (1996)

Water Body-specific Information

Data = 2000 Beach closure data.

Data used to assess water quality

The information used to recommend this listing from the NRDC report was based on the SWRCB's year 2000 beach advisory postings, and not actual

closures.

Spatial representation

Temporal representation

Data type

Use of standard method RWQCB methods.

Potential Source(s) of Pollutant Urban Runoff/Storm Sewers.

Alternative Enforceable Program Unknown.

RWQCB Recommendation A review of the SWRCB information on San Mateo County beaches shows

that the listings were recommended in error. All of the information in the NRDC report was based on SWRCB's year 2000 beach advisory "precautionary postings", and not actual closures. As such, the RWQCB recommends excluding five San Mateo County beaches from the 303(d) list recommendations for beach closures. The RWQCB recommends

excluding Pacific Ocean at Sharp Park Beach from listing.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded. This water body should be excluded from the 303(d) list because the indicator used did not

characterize beach conditions or represent standards exceedances.

Region 2: Pacific Ocean at Surfer's Beach Total Coliform

Pacific Ocean at Surfer's Beach Water Body

Stressor/Media/Beneficial Use Total Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met. San Mateo County Environmental Health Dept. Beach Monitoring, Surfrider data/lab QA/QC used. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4)

were used to list a water body.

Linkage between measurement endpoint

and benefical use or standard

Total and Fecal Coliform linked to REC-1.

Utility of measure for judging if standards or uses are not attained WQO Ocean Plan used.

Water Body-specific Information Data = 4 years (97-2001), Data measured at the site, Species or Indicator

present at site, Environmental Conditions considered at site.

Data = 134 total coliform samples, 126 fecal coliform samples. Ocean Plan Data used to assess water quality

objectives violated in 5% samples for total coliform in combined dryweather and wet-weather months. Ocean Plan objectives violated in 9% of samples for fecal coliform in combined wet-dry weather. No exceedances

between May and October. Listing driven by wet weather only.

Spatial representation Data was spatially collected.

Temporal representation Data was collected, from 7/97-1/01.

Data type Numerical data.

San Mateo County Environmental Health Dept. Beach Monitoring, Use of standard method

Surfrider data/lab methods, RWQCB.

Potential Source(s) of Pollutant Nonpoint Source.

Alternative Enforceable Program Unknown.

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

> documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the Monitoring List because the applicable

water quality standards are not exceeded.

Region 2: Pacific Ocean at Surfer's Beach Beach Closures

Water Body Pacific Ocean at Surfer's Beach

Stressor/Media/Beneficial Use Beach Closures/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

San Mateo County Environmental Health Dept. Beach Monitoring, Surfrider data/lab QA/QC used. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4)

were used to list a water body.

Linkage between measurement endpoint

and benefical use or standard

Fecal Coliform linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO Ocean Plan used.

Water Body-specific Information

Data = 2000 Beach closure data.

Data used to assess water quality

The information used to recommend this listing from the NRDC report was based on the SWRCB's year 2000 beach advisory postings, and not actual

closures.

Spatial representation

Temporal representation

Data type

Use of standard method San Mateo County Environmental Health Dept. Beach Monitoring,

Surfrider data/lab methods, RWQCB.

Potential Source(s) of Pollutant Nonpoint Source.

Alternative Enforceable Program Unknown.

RWQCB Recommendation A review of the SWRCB information on San Mateo County beaches shows

that the listings were recommended in error. All of the information in the NRDC report was based on SWRCB's year 2000 beach advisory "precautionary postings", and not actual closures. As such, the RWQCB recommends excluding five San Mateo County beaches from the 303(d)

list recommendations for beach closures. The RWQCB recommends

excluding Pacific Ocean at Surfer's Beach from listing.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded. This water body should be excluded from the 303(d) list because the indicator used did not

characterize beach conditions or represent standards exceedances.

Region 2: Pacific Ocean at Venice Beach High Coliform

Water Body Pacific Ocean at Venice Beach

Stressor/Media/Beneficial Use High Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

San Mateo County Environmental Health Dept. Beach Monitoring, Surfrider data/lab QA/QC used. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4)

were used to list a water body.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO Ocean Plan used.

Water Body-specific Information Dat

Data = 2 years (98-2000), Data measured at the site, Species or Indicator

present at site, Environmental Conditions considered at site.

Data used to assess water quality

Data = 30 samples. Ocean Plan violated in 13% of samples for total

coliform in dry-weather months.

Spatial representation

Temporal representation

Data was spatially collected.

Data was collected from 9/28/98-10/31/00.

Data type

Numerical data.

Use of standard method

San Mateo County Environmental Health Dept. Beach Monitoring, Surfrider data/lab methods, RWQCB.

Potential Source(s) of Pollutant

Alternative Enforceable Program

Nonpoint Source.

Unknown.

RWQCB Recommendation

List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality objective used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body- or site-specific information including the effects of season and age of the data were considered.

Region 2: Pacific Ocean at Venice Beach High Coliform

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 2: Pacific Ocean at Venice Beach Beach Closures

Water Body Pacific Ocean at Venice Beach

Stressor/Media/Beneficial Use Beach Closures/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

San Mateo County Environmental Health Dept. Beach Monitoring, Surfrider data/lab QA/QC used. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4)

were used to list a water body.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO Ocean Plan used.

Water Body-specific Information

Data = 2000 Beach closure data. Data measured at the site, Species or Indicator present at site, Environmental Conditions considered at site.

Data used to assess water quality

The beach closures were based on high coliform counts. Percent exceedances were calculated for the maximum, median, and geomean Basin Plan and Ocean Plan Objectives. There were exceedances of the objectives, and consistent with USEPA guidance (1996), the beach is

recommended to be listed.

Spatial representation Data was spatially collected.

Temporal representation Data was temporally collected.

Data type Numerical data.

Use of standard methodSan Mateo County Environmental Health Department, Beach Monitoring,

Surfrider data/lab methods, RWQCB.

Potential Source(s) of Pollutant Urban Runoff/Storm Sewers.

Alternative Enforceable Program

RWQCB Recommendation A review of the SWRCB information on San Mateo County beaches shows

that the listings were recommended in error. All of the information in the NRDC report was based on SWRCB's year 2000 beach advisory "precautionary postings", and not actual closures. As such, the RWQCB recommends excluding five San Mateo County beaches from the 303(d) list recommendations for beach closures. The RWQCB recommends

excluding Pacific Ocean at Surfer's Beach from listing.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded. This water body should be excluded from the 303(d) List, because the indicator used did not characterize beach conditions or represent standards exceedances.

Region 2: Petaluma River Diazinon

Water Body Petaluma River

Stressor/Media/Beneficial Use Diazinon/Water/Aquatic life (WARM; MIGR)

Data quality assessment. Extent to which data quality requirements met.

Abelli-Amen, Petaluma Tree Planters data used. QA/QC requirement. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4) were used to list a water body.

Linkage between measurement endpoint and benefical use or standard

Diazinon linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

CDFG Acute Criterion, WQO

Water Body-specific Information

Data = 4 months (7/98-11/98), Data measured at the site, Species or Indicator present at site, Environmental Conditions considered at site.

Data used to assess water quality

Data = 36 samples total. CDFG acute criteria for Diazinon was violated in 33% of the samples. The criteria was used to determine the exceedance of the WQO.

Spatial representation

Data was spatially collected.

Temporal representation

Data was collected, from 7/98-11/98.

Data type

Numerical data.

Use of standard method

Abelli-Amen, Petaluma Tree Planters, RWQCB methods.

Potential Source(s) of Pollutant

Urban Runoff/Storm Sewers.

Alternative Enforceable Program

Unknown.

RWQCB Recommendation

List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body- or site-specific information including the effects of season and age of the data were considered.

Region 2: Petaluma River Diazinon

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 2: Petaluma River (tidal portion) Nickel

Petaluma River (tidal portion) Water Body

Stressor/Media/Beneficial Use Nickel/Water/Aquatic Life (WARM, MIGR)

Data quality assessment. Extent to which data quality requirements met. Used Regional Monitoring Program (RMP) and Special TMDL study QA/QC. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4) were used to list a

water body.

Linkage between measurement endpoint and benefical use or standard

Nickel linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained CTR, WQO Basin Plan.

Water Body-specific Information

Data = 8 years (93-2001), Data measured at the site, Species or Indicator

present at site, Environmental Conditions considered at site.

Data used to assess water quality

Using the CTR, there have been 4 exceedances since 1993, two were twice

the Basin Plan Objective amounts.

Spatial representation

Data was spatially collected.

Temporal representation

Data was collected from 3/93-4/01.

Use of standard method

Data type

Regional Monitoring Program (RMP) methods.

Potential Source(s) of Pollutant

Municipal Point Sources, Urban Runoff/Storm Sewers, Atmospheric

Deposition.

Numerical data.

Alternative Enforceable Program

Unknown

RWQCB Recommendation

List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body- or site-specific information including the effects of season and age of the data were considered.

Region 2: Petaluma River (tidal portion) Nickel

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate. List the Petaluma River (tidal portion) for nickel.

Region 2: Petaluma River (tidal portion) Copper

Water Body Petaluma River (tidal portion)

Stressor/Media/Beneficial Use Copper/Water/Aquatic Life (WARM, MIGR)

Data quality assessment. Extent to which data quality requirements met.

Used Regional Monitoring Program (RMP) and Special TMDL study QA/QC. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information were used to list a water body.

Linkage between measurement endpoint and benefical use or standard

Copper linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

WQO Basin Plan used.

Water Body-specific Information

Data = 8 years (93-2001), Data measured at the site, Species or Indicator

present at site, Environmental Conditions considered at site.

Data used to assess water quality

Spatial representation

There were 15 exceedances since 1993. New information sent to the SWRCB in a memo on 2/26/02 changes this finding. The modified rationale, based on water effect ratio (WER) information, shows that copper levels are below applicable thresholds of impairment in the Petaluma River (tidal portion). Available water effect ratio (WER) data support the RWQCB recommendation to de-list copper.

Temporal representation Data was collected from 3/93-4/01.

Data type Numerical data.

Use of standard method Regional Monitoring Program (RMP) methods.

Potential Source(s) of Pollutant Municipal Point Sources, Urban Runoff/Storm Sewers, Atmospheric

Data was spatially collected.

Deposition.

Alternative Enforceable Program

Unknown.

RWQCB Recommendation

Exclude from the List. This listing was made in the Draft Staff report. However a memo sent on 2/26/02 made mention that the RB no longer wishes to list the mouth of the Petaluma river for copper. This finding to withdraw the recommendation is based on the modified rationale to list, based on Water Effect Ratio (WER) information. The new information shows the copper levels are below the threshold for exceedance, there is no

need for the river to be listed.

SWRCB Staff Recommendation Exclude from the List. SWRCB staff agrees with the RWQCB

recommendation to withdraw this listing for 2002 due to new WER

information.

Region 2: Peyton Slough Silver, Cadmium, Copper, Selenium, Zinc, PCBs, Chlordane, ppDDE, Pyren +

Water Body	Peyton Slough
Stressor/Media/Beneficial Use	Silver, Cadmium, Copper, Selenium, Zinc, PCBs, Chlordane, ppDDE, Pyrene/Sediment/Aquatic Life
Data quality assessment. Extent to which data quality requirements met.	Used BPTCP QA/QC. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4) were used to list a water body.
Linkage between measurement endpoint and benefical use or standard	Sediment toxicity linked to the aquatic life beneficial use. Benthic community effects are direct measures of the aquatic life beneficial use.
Utility of measure for judging if standards or uses are not attained	Toxicity test results (and ERM quotient) for sediment chemistry used.
Water Body-specific Information	Data = 2 years (95-97), Data measured at the site, Environmental Conditions considered at site.
Data used to assess water quality	Elevated sediment chemistry (ERM quotient), significant amphipod toxicity in $4/5$ samples (80%), significant urchin toxicity $4/5$ samples (80%), relative benthic index = 0.36, 0.51, 0.34 (3 benthic gradient samples).
Spatial representation	Data was spatially collected.
Temporal representation	Data was collected, from 5/95-4/97.
Data type	Numerical data.
Use of standard method	BPTCP methods.
Potential Source(s) of Pollutant	Industrial Point Sources.
Alternative Enforceable Program	Peyton Slough is identified as a toxic hot spot in the SWRCB Consolidated Toxic Hot Spots Cleanup Plan SWRCB Resolution No. 99-065). This plan is being implemented through a Cleanup and Abatement Order. San Francisco Bay RWQCB Order No. 01-094 provides direction for the remediation of the identified problems in Peyton Slough. The Order establishes requirements for a remedial design report and implementation schedule, documentation of the remediation of Peyton Slough, and five-year status report on the effectiveness of the implementation of the approved cleanup plan.
RWQCB Recommendation	List: Current application of other regulatory authorities and the effects-based nature of the listing would give this listing a low-priority.
SWRCB Staff Recommendation	After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the Enforceable Program list because

addressing the problem.

applicable water quality standards are exceeded and another program is

Region 2: Peyton Slough Silver, Cadmium, Copper, Selenium, Zinc, PCBs, Chlordane, ppDDE, Pyren +

The water quality problem is being addressed by implementation of the Consolidated Toxic Hot Spots Cleanup Plan using Cleanup and Abatement Orders.

Region 2: Pomponino Creek High Coliform Count

Water Body Pomponino Creek

Stressor/Media/Beneficial Use High Coliform Count/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

San Mateo County Environmental Health Dept. Beach Monitoring, Surfrider data/lab QA/QC used. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4) were used to list a water body.

Linkage between measurement endpoint and benefical use or standard

High Coliform Counts are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO Basin Plan used.

Water Body-specific Information

Data = 5 months (2000), Data measured at the site, Species or Indicator present at site, Environmental Conditions considered at site.

Data used to assess water quality

Data = 44 samples for total coliform, 23 samples for fecal coliform, 21 E. coli samples. Basin Plan objectives violated in 64% samples for total coliform median. Basin Plan objectives violated in 3% samples for fecal coliform geomean. Basin Plan Objectives violated in 17% samples for fecal coliform in dry-weather months. E. coli data showed Basin Plan objectives violated in 5% samples for all the beach uses in dry weather months.

Spatial representation Data was spatially collected.

Temporal representation Data was collected from 6/12/00-10/31/00.

Data type Numerical data.

Use of standard methodSan Mateo County Environmental Health Department, Beach Monitoring,

Surfrider data/lab methods, RWQCB.

Potential Source(s) of Pollutant Nonpoint Source.

Alternative Enforceable Program Unknown.

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality objective used is applicable.
- 5. Data are numerical.

Region 2: Pomponino Creek High Coliform Count

- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the effects of season and age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 2: San Gregorio Creek High Coliform Count

Water Body San Gregorio Creek

Stressor/Media/Beneficial Use High Coliform Count/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

San Mateo County Environmental Health Dept. Beach Monitoring, Surfrider data/lab QA/QC used. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4)

were used to list a water body.

Linkage between measurement endpoint and benefical use or standard

High Coliform Counts are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO Basin Plan used.

Water Body-specific Information

Data = 2 years (98-2000), Data measured at the site, Species or Indicator present at site, Environmental Conditions considered at site.

Data used to assess water quality

Data = 56 samples for total coliform, 23 samples for fecal coliform, 22 samples for E. coli. Basin Plan objectives violated in 2% samples for total coliform maximum. Objectives violated in 73% samples for total coliform median. Basin Plan objectives violated in 26% samples for fecal coliform geomean. Objectives violated in 43% samples for fecal coliform in dryweather months. E. coli data show 45% samples for total coliform maximum designated beach violated the Basin Plan Objectives. Basin Plan objectives violated in 45% samples for E. coli maximum moderately-used beach, violated in 18% samples for maximum lightly-used beach and violated in 45% samples for maximum infrequently-used beach, in dry weather months.

Spatial representation Data was spatially collected.

Temporal representation Data was collected from 9/28/98-10/31/00.

Data type Numerical data.

Use of standard method San Mateo County Environmental Health Department, Beach Monitoring,

Surfrider data/lab methods, RWQCB.

Potential Source(s) of Pollutant Nonpoint Source.

Alternative Enforceable Program Unknown.

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or

causes the problem.

This conclusion is based on the staff findings that: 1. The data is considered to be of adequate quality.

Region 2: San Gregorio Creek High Coliform Count

- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality objective used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 8. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 2: San Leandro Bay Mercury, Lead, Selenium, Zinc, PAHs, DDT, Pesticides

San Leandro Bay Water Body

Stressor/Media/Beneficial Use Mercury, Lead, Selenium, Zinc, PAHs, DDT, Pesticides/Sediment/Aquatic

Data quality assessment. Extent to which data quality requirements met. BPTCP QA/QC. SFEI Study dated 2001 used appropriate QA/QC.

Linkage between measurement endpoint and benefical use or standard

Sediment toxicity linked to aquatic life beneficial uses.

Utility of measure for judging if standards or uses are not attained Toxicity test results (and ERM quotient) for sediment chemistry used.

Water Body-specific Information

Data used to assess water quality Elevated sediment chemistry (ERM quotient), 5/6 tests, Significant amphipod toxicity 3/7 tests, Significant urchin toxicity 3/7 tests, no

indication of significant degradation from benthic analyses.

Spatial distribution of samples is described in the report: Sediment quality **Spatial representation**

and biological effects in San Francisco Bay (Bay Protection and Toxic

Cleanup Program), dated August 1998.

Temporal distribution of samples is described in the report: Sediment Temporal representation

quality and biological effects in San Francisco Bay (Bay Protection and

Toxic Cleanup Program), dated August 1998.

Numerical data. Data type

Use of standard method BPTCP methods used.

Potential Source(s) of Pollutant Not identified.

Alternative Enforceable Program This site was identified as a moderate priority in the Consolidated Toxic

Hot Spots Cleanup Plan. Remediation planning has yet to be completed.

A listing is not proposed for PCBs in San Leandro Bay because such a proposal is already subsumed in the more general listing for PCBs in Central San Francisco Bay. Consequently, it is not necessary to list San Leandro Bay for PCBs because the PCBs in sediment will be addressed in the development of the TMDL for PCBs in Central San Francisco Bay.

RWQCB Recommendation Monitoring List.

After reviewing the available data and information and the RWOCB SWRCB Staff Recommendation

> documentation for this recommendation. SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem. A listing is not proposed for PCBs in the sediments of San Leandro Bay because such a proposal is already subsumed in the more

general listing for PCBs in Central San Francisco Bay.

This conclusion is based on the staff findings that: 1. The data is considered to be of adequate quality.

Region 2: San Leandro Bay Mercury, Lead, Selenium, Zinc, PAHs, DDT, Pesticides

- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses are applicable and apply to this water body.
- 4. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 5. Data are numerical.
- 6. Standard methods were used.

An adequate amount of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 2: San Pablo Reservoir Mercury

Water Body San Pablo Reservoir

Stressor/Media/Beneficial Use Mercury/Water/Fish Consumption

Data quality assessment. Extent to which data quality requirements met.

Used California Office of Health Hazard Assessment and Contra Costa County Health Services data. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4)

were used to list a water body.

Linkage between measurement endpoint and benefical use or standard

Mercury linked to fish consumption.

Utility of measure for judging if standards or uses are not attained

Interim fish advisory issued Feb. 2000, USEPA screening criteria (0.3 ppm), WQO.

Water Body-specific Information Data = 1 month (11/97), Data measured at the site, Species or Indicator

present at site, Environmental Conditions considered at site.

Data used to assess water quality 5 out of 12 composite fish-tissue samples exceed the USEPA criteria. All

of the fish were trophic Level 4 samples (large mouth bass). There was also

a fish advisory issued in February 2000.

Spatial representation

Temporal representation Data was collected during 11/97.

Data type Numerical data.

Use of standard method Unknown.

Potential Source(s) of Pollutant Atmospheric Deposition.

Alternative Enforceable Program Unknown.

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. Beneficial uses have been established.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body- or site-specific information including the age of the data were considered.

Region 2: San Pablo Reservoir Mercury

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 2: San Pedro Creek High Coliform Count

Water Body San Pedro Creek

Stressor/Media/Beneficial Use High Coliform Count/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

San Mateo County Environmental Health Dept. Beach Monitoring/Surfrider data/lab QA/QC used. USEPA Region IX Laboratory data used. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4) were used to list a water body.

Linkage between measurement endpoint and benefical use or standard

High Coliform Counts are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WOO Basin Plan used.

Water Body-specific Information

Data = 3 years (98-2000), Data measured at the site, Species or Indicator present at site, Environmental Conditions considered at site.

Data used to assess water quality

Data = 99 samples for total coliform, 6 samples for fecal coliform, for Basin Plan data set. 41 samples for total coliform, 23 samples for fecal coliform for Ocean Plan data set. Basin Plan objectives violated in 13% samples for total coliform, 98% samples for total coliform median, and 100% violated for samples of fecal coliform geomean and fecal coliform in dry weather months. Ocean Plan objectives violated in 90% of the samples for total coliform, 96% of samples for fecal coliform geomean, and 100% fecal coliform in dry weather months. E. coli data show 67% samples for total coliform maximum designated beach violated the Basin Plan Objectives. Basin Plan objectives violated in 63% samples for E. coli maximum moderately-used beach, violated in 57% samples for maximum lightly-used beach and violated in 57% samples for maximum infrequently-used beach, in dry weather months.

Spatial representation Data was collected at 15 sampling sites.

Temporal representation Data was collected, from 5/26/98-8/14/00, and 4/24/00-11/13/00.

Data type Numerical data.

Use of standard methodCalifornia Office of Health Hazard Assessment and Contra Costa County

Health Services methods.

Potential Source(s) of Pollutant Urban Runoff/Storm Sewers, Nonpoint Source.

Alternative Enforceable Program Unknown.

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or

causes the problem.

Region 2: San Pedro Creek High Coliform Count

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality objective used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 2: San Vicente Creek High Coliform Count

Water Body San Vicente Creek

atti Body

Stressor/Media/Beneficial Use High Coliform Count/Water/REC-1, REC-2

Data quality assessment. Extent to which data quality requirements met.

San Mateo County Environmental Health Department. Beach Monitoring, Surfrider data/lab QA/QC used. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4)

were used to list a water body.

Linkage between measurement endpoint and benefical use or standard

High Coliform Counts linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO Basin Plan used.

Water Body-specific Information

Data = 2 years (98-2000), Data measured at the site, Species or Indicator present at site, Environmental Conditions considered at site.

Data used to assess water quality

Data = 38 samples for total coliform, 22 samples for fecal coliform, and 6 samples for E. coli. E. coli data show 100% violations of the Basin Plan Objectives for total coliform maximum at all beaches in dry-weather months. Basin Plan violated in 3% of samples for total coliform maximum, 100% samples violated for total coliform median, 100% samples violated for fecal coliform geomean and 100% samples violated for fecal coliform (REC-1). Basin Plan objectives violated in 32% of samples for fecal coliform mean, and 23% violated samples for fecal coliform (REC-2) in dry-weather months.

Spatial representation Data was spatially collected.

Temporal representation Data was collected from 10/6/98-9/26/00.

Data type Numerical data.

Use of standard methodSan Mateo County Environmental Health Dept. Beach Monitoring,

Surfrider data/lab methods, RWQCB.

Potential Source(s) of Pollutant Nonpoint Source.

Alternative Enforceable Program Unknown.

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.

Region 2: San Vicente Creek High Coliform Count

- 4. Water quality objective used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 2: Stege Marsh

Arsenic, Copper, Mercury, Selenium, Zinc, Chlordane, Dieldrin, ppDDE, +

Water Body	Stege Marsh
Stressor/Media/Beneficial Use	Arsenic, Copper, Mercury, Selenium, Zinc, Chlordane, Dieldrin, ppDDE, Dacthal, Endosulfan 1, Endosulfan sulfate, Dichlorobenzophenone, Heptachlor epoxide, Hexachlorobenzene, Mirex, Oxidiazon, Toxaphene, PCBs/Sediment/Aquatic Life
Data quality assessment. Extent to which data quality requirements met.	Used BPTCP QA/QC. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4) were used to list a water body.
Linkage between measurement endpoint and benefical use or standard	The observed sediment toxicity and benthic community effects are linked to aquatic life beneficial uses.
Utility of measure for judging if standards or uses are not attained	Toxicity test results (and ERM quotient) for sediment used.
Water Body-specific Information	Data = 2 months (1997), Data measured at the site, Environmental Conditions considered at site.
Data used to assess water quality	Elevated sediment chemistry (ERM quotient) 0-1% amphipod Survival, 5/5 tests, significant urchin toxicity, 3/3 samples, Relative benthic index 0.00 (2 benthic samples).
Spatial representation	Data was spatially collected.
Temporal representation	Data was collected from 10/97-12/97.
Data type	Numerical data.
Use of standard method	BPTCP methods.
Potential Source(s) of Pollutant	Industrial Point Sources.
Alternative Enforceable Program	Stege Marsh is identified as a toxic hot spot on the SWRCB Consolidated Toxic Hot Spots Cleanup Plan SWRCB Resolution No. 99-065). This plan is being implemented through Cleanup and Abatement Orders.
RWQCB Recommendation	List: Current application of other regulatory authorities and the effects-based nature of the listing would give this listing a low-priority.
SWRCB Staff Recommendation	After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the Enforceable Program list because applicable water quality standards are exceeded and another program is addressing the problem.

Orders.

The water quality problem is being addressed by implementation of the Consolidated Toxic Hot Spots Cleanup Plan using Cleanup and Abatement

Region 2: Tomales Bay Mercury

Water Body Tomales Bay

Stressor/Media/Beneficial Use Mercury/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4) were used to list a water body.

Linkage between measurement endpoint

and benefical use or standard

Mercury linked to Aquatic life.

Utility of measure for judging if standards or uses are not attained

N/A

Water Body-specific Information

N/A

Data used to assess water quality N/A

Spatial representation Data was spatially collected.

Temporal representation Data was temporally collected.

Data type Numerical data.

Use of standard method N/A

Potential Source(s) of Pollutant Mine Tailings.

Alternative Enforceable Program N/A

RWQCB Recommendation Change in listed water body. Change pollutant from Metals to Mercury.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body pollutant should be changed in this already listed water body.

Change pollutant from Metals to Mercury.

Region 2: Walker Creek Mercury

Water Body Walker Creek

Stressor/Media/Beneficial Use Mercury/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

QA/QC requirement. Data evaluation was based on USEPA guidelines for 305(b) reports, that uses a hierarchy of water quality data levels. Only data of higher overall level of information (Levels 3 and 4) were used to list a

water body.

Linkage between measurement endpoint

and benefical use or standard

Mercury linked to Aquatic life.

Utility of measure for judging if standards or uses are not attained

N/A

Water Body-specific Information

N/A

Data used to assess water quality N/A

Spatial representation Data was spatially collected.

Temporal representation Data was temporally collected.

Data type Numerical data

Use of standard method N/A

Potential Source(s) of Pollutant Surface Mining, Mine Tailings

Alternative Enforceable Program N/A

RWQCB Recommendation Change in listed water body. Change pollutant from metals to mercury.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body pollutant should be changed in this already listed water body.

Change pollutant from metals to mercury.



Water Bodies Proposed for the Monitoring List in Region 2

Water Body	Pollutant/Stressor	Rationale
Carquinez Stra	ait	
	Copper	Data = 466 samples total collectively for S.F. Bay segments North of the Dumbarton Bridge. Since March 1993, there have been 6 exceedances, and there have been no exceedances of the objective since 1997.
	Nickel	Data = 463 samples total collectively for S.F. Bay segments North of the Dumbarton Bridge. Using the CTR standard, there have been no exceedances since March of 1993.
	PAHs, PBDEs	For PAHs: Did not exceed threshold concentrations for adverse effects to fish embryos. Occasional exceedances of the human health criteria in ambient samples, evidence of increasing shellfish concentrations, and preponderance of PAHs at toxic sites warrant increased assessment activities for PAHs by dischargers and cities around the region. RMP resources will be expected to better assess PAH impacts in the estuary, since the current spatial and temporal coverage does not address areas near the shoreline that may be greater impacted by PAHs in discharges of urban runoff and other sources.
		For PBDEs: No available WQ objective or evaluation guideline. PBDEs research literature will be reviewed by the RWQCB to ascertain any new information on actual effects thresholds for these persistent bioaccumulative substances in the next listing cycle. These actions can be conducted regionally through the RMP, the Bay Area Pollution Prevention Group, or other association of dischargers. During the subsequent listing cycle, RWQCB staff evaluation of current research, applicable water quality criteria, and local actions to characterize sources and pollution prevention of PBDEs will determine whether a listing is needed.
Lake Merced		
	Low Dissolved Oxygen	5/14 (36%) Dissolved Oxygen violations at East Lake, 64% Dissolved Oxygen violations, South Police Range, 57% Dissolved Oxygen violations, South Pump Station, 93% Dissolved Oxygen violations, North Lake, 57% Dissolved Oxygen violations, East Lake, 5/14 (36%) violations of pH (>8.5) at North Lake.
		Because DO and pH are such dynamic parameters in this water body, the spatial and temporal coverage of this study is not adequate to assess impairment. RWQCB staff recommends that DO and pH be monitored systematically by a public agency such as the SFWD, the San Francisco Public Utilities Commission, or other stakeholder. This monitoring should be conducted at the same sites as the SFWD program plus additional sites within the different portions of the lake, and more frequently than before, continuously where resources allow, to assess whether the lake is truly impaired due to lack of DO or elevated pH. In the next listing cycle the RWQCB will re-evaluate DO and pH information, including the 1997-2000 data, and will make a determination for DO and pH listings.

Water Body	Pollutant/Stressor	Rationale
Lake Merritt		
	Low Dissolved Oxygen	In 1998, the USEPA listed Lake Merritt as impaired by low dissolved oxygen (D.O.) and organic enrichment. The original data used by USEPA to recommend listing does not meet quality and quantity requirements necessary to support 303(d) listing, specified in USEPA guidance. No assessment methodology for organic enrichment was followed, and the organic matter discharged to the lake would probably be better characterized as a source of potential D.O. impairment. Statewide the 303(d) list couples low D.O. with organic enrichment. Information submitted to the RWQCB during the public solicitation provided anecdotal-level information that D.O. levels may be inadequate to support beneficial uses, especially when the tide gates are closed by the Alameda County 303(d) Staff Report San Francisco Bay Regional Water Quality Control Board Flood Control District (ACFCD), but the study design did not document surface D.O. levels, particularly pre-dawn levels, which provide the necessary estimator of D.O. to support beneficial uses. No evidence of beneficial use impairment, such as number and frequency of fish kills, has been submitted. A quick review of 1997-98 surface D.O. data from the county indicates that the Basin Plan standard is met, but specific time-of-day information for this data is not available, and therefore this review is inconclusive.
		Because of community concern and anecdotal evidence of continued impairment, RWQCB staff does not recommend de-listing at this time, but recommends that D.O. be monitored systematically by a public agency such as the ACFCD, City of Oakland, Alameda County Public Works Agency, or other stakeholder. This monitoring should be conducted at a minimum at the same sites as studies submitted by the Lake Merritt Institute, but more frequently than before, continuously where resources allow, to assess whether the lake is truly impacted due to lack of D.O.
Lakes and Sho Francisco Bay		
	Trash	Volunteers have documented trash removal from the Lake Merritt but other lakes and shoreline conditions are unknown. More data and information are needed documenting in space and time the abundance and amount of trash and debris in lakes and along the shoreline.
Novato Creek	below Stafford Dam	
	Sedimentation and Siltation	The two sediment reports have resulted from conditions of 401 certifications granted by the RWQCB for dredging permits in lower Novato Creek. Because there is a sediment management planning process underway required by regulatory action, RWQCB staff believes that the water quality standard may be implemented within the next listing 303(d) Staff Report San Francisco Bay Regional Water Quality Control Board cycle. Also, the sediment control plan recommends identifying areas of potential and existing salmonid spawning habitat and will better link the effects of sediment input from instream (the major source) and hillslope sources on beneficial uses. The RWQCB recommends that sediment threatens to impair water quality in Novato Creek. In the next listing cycle, the RWQCB will evaluate the planned sediment management and salmonid habitat identification efforts and an impairment listing will be determined. If the sediment control plan is not implemented, then the impairment listing may be triggered.
Pacific Ocean	at Baker Beach	
	High Coliform Count	Data = 164 samples total. Ocean Plan objectives violated in 9.7% of the samples for total coliform in dry-weather months. Combined sewer overflow events are not considered because all CSOs in the vicinity have been directed away from Lobos Creek drainage onto Baker Beach.
Pacific Ocean Beach	at San Gregorio	
	High Coliform Count	Data = 56 samples for total coliform, 23 samples for fecal coliform. Ocean Plan objectives violated in 5% of samples for total coliform in combined dry- and wetweather months. Ocean Plan objectives violated in 8% samples for fecal coliform, wetweather only. No exceedances between May and October. Listing driven by wet weather exceedances.

Water Body	Pollutant/Stressor	Rationale
Pacific Ocean a	at Surfer's Beach	
	Total Coliform	Data = 134 total coliform samples, 126 fecal coliform samples. Ocean Plan objectives violated in 5% samples for total coliform in combined dry-weather and wet-weather months. Ocean Plan objectives violated in 9% of samples for fecal coliform in combined wet-dry weather. No exceedances between May and October. Listing driven by wet weather only.
Pilarcitos Creel Reservoir	k below Pilarcitos	
	Sedimentation and Siltation	Turbidity monitoring has not been conducted in Pilarcitos Creek so it is not possible, at this time, to determine whether a problem exists in Pilarcitos Creek. Pilarcitos Creek should be placed on the Monitoring List because: (1) there is a clear linkage between sediment and degradation of habitat for steelhead in this watershed; (2) it remains to be determined whether human activities are an important factor; and (3) there is an active watershed restoration program, the Pilarcitos Creek Watershed Advisory Committee (PCWAC), that has broad stakeholder participation and support. The sources of fine sediment are not adequately characterized to support a 303(d) listing at this time.
Redwood Cree Mateo County)	k, tidal portion (San	
	High Coliform Count	The data was from one year from one season with only 12 samples. The data showed 4 of 12 samples exceed the objective. The available data and information are inadequate to draw a conclusion. More monitoring is needed to determine if listing is necessary.
Richardson Ba	y	
	PAHs, PBDEs	For PAHs: Did not exceed threshold concentrations for adverse effects to fish embryos, For PBDEs: No available WQ criterion/objective. Occasional exceedances of the human health criteria in ambient samples, evidence of increasing shellfish concentrations, and preponderance of PAHs at toxic sites warrant increased assessment activities for PAHs by dischargers and cities around the region. RMP resources will be expected to better assess PAH impacts in the estuary, since the current spatial and temporal coverage does not address areas near the shoreline that may be greater impacted by PAHs in discharges of urban runoff and other sources.
		PBDEs research literature will be reviewed by the RWQCB to ascertain any new information on actual effects thresholds for these persistent bioaccumulative substances in the next listing cycle. These actions can be conducted regionally through the RMP, the Bay Area Pollution Prevention Group, or other association of dischargers. During the subsequent listing cycle, RWQCB staff evaluation of current research, applicable water quality criteria, and local actions to characterize sources and pollution prevention of PBDEs will determine whether a listing is needed.
Sacramento-Sa	n Joaquin Delta	
	Copper	Data = 466 samples total collectively for S.F. Bay segments North of the Dumbarton Bridge. Since March 1993, there have been 6 exceedances, and there have been no exceedances of the objective since 1997.
	Nickel	Data = 463 samples total collected for S.F. Bay segments North of the Dumbarton Bridge. Using the CTR standard, there have been no exceedances since March of 1993.

Water Body	Pollutant/Stressor	Rationale
	PAHs, PBDEs	For PAHs: Did not exceed threshold concentrations for adverse effects to fish embryos. For PBDEs: No available WQ criterion/objective. Occasional exceedances of the human health criteria in ambient samples, evidence of increasing shellfish concentrations, and preponderance of PAHs at toxic sites warrant increased assessment activities for PAHs by dischargers and cities around the region. RMP resources will be expected to better assess PAH impacts in the estuary, since the current spatial and temporal coverage does not address areas near the shoreline that may be greater impacted by PAHs in discharges of urban runoff and other sources.
		PBDEs research literature will be reviewed by the RWQCB to ascertain any new information on actual effects thresholds for these persistent bioaccumulative substances in the next listing cycle. These actions can be conducted regionally through the RMP, the Bay Area Pollution Prevention Group, or other association of dischargers. During the subsequent listing cycle, RWQCB staff evaluation of current research, applicable water quality criteria, and local actions to characterize sources and pollution prevention of PBDEs will determine whether a listing is needed.
San Francisco	Bay, Central	
	Copper	Data = 466 samples total collectively for S.F. Bay segments North of the Dumbarton Bridge. Since March 1993, there have been 6 exceedances, and there have been no exceedances of the objective since 1997.
	PAHs, PBDEs	For PAHs: Did not exceed threshold concentrations for adverse effects to fish embryos. For PBDEs: No available WQ criterion/objective. Occasional exceedances of the human health criteria in ambient samples, evidence of increasing shellfish concentrations, and preponderance of PAHs at toxic sites warrant increased assessment activities for PAHs by dischargers and cities around the region. RMP resources will be expected to better assess PAH impacts in the estuary, since the current spatial and temporal coverage does not address areas near the shoreline that may be greater impacted by PAHs in discharges of urban runoff and other sources.
		PBDEs research literature will be reviewed by the RWQCB to ascertain any new information on actual effects thresholds for these persistent bioaccumulative substances in the next listing cycle. These actions can be conducted regionally through the RMP, the Bay Area Pollution Prevention Group, or other association of dischargers. During the subsequent listing cycle, RWQCB staff evaluation of current research, applicable water quality criteria, and local actions to characterize sources and pollution prevention of PBDEs will determine whether a listing is needed.
San Francisco	Bay, Lower	
	Copper	Data = 466 samples total collected for S.F. Bay segments North of the Dumbarton Bridge. Since March 1993, there have been 6 exceedances, and there have been no exceedances of the objective since 1997.
	Nickel	Data = 463 samples total collected for S.F. Bay segments North of the Dumbarton Bridge. Using the CTR standard, there have been no exceedances since March of 1993.
	PAHs, PBDEs	For PAHs: Did not exceed threshold concentrations for adverse effects to fish embryos. For PBDEs: No available WQ criterion/objective. Occasional exceedances of the human health criteria in ambient samples, evidence of increasing shellfish concentrations, and preponderance of PAHs at toxic sites warrant increased assessment activities for PAHs by dischargers and cities around the region. RMP resources will be expected to better assess PAH impacts in the estuary, since the current spatial and temporal coverage does not address areas near the shoreline that may be greater impacted by PAHs in discharges of urban runoff and other sources.
		PBDEs research literature will be reviewed by the RWQCB to ascertain any new

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PBDEs will determine whether a listing is needed.

information on actual effects thresholds for these persistent bioaccumulative substances in the next listing cycle. These actions can be conducted regionally through the RMP, the Bay Area Pollution Prevention Group, or other association of dischargers. During the subsequent listing cycle, RWQCB staff evaluation of current research, applicable water quality criteria, and local actions to characterize sources and pollution prevention of

Water Body	Pollutant/Stressor	Rationale
San Francisco	Bay, South	
	Copper	Data = 690 samples total collected for S.F. Bay south of the Dumbarton Bridge. Available ambient dissolved copper concentrations in the estuary never exceed the most conservative WER-based objectives. For example, out of 50 WERs recently generated based on USEPA guidance if the lowest 5th percentile WER of 1.7 were used, the CTR marine chronic objective for dissolved copper would be 5.3 ug/l, which has not been exceeded in 466 samples in the San Francisco Estuary since the Regional Monitoring Program began in 1993.
	Nickel	Data = 604 samples total collected for S.F. Bay south of the Dumbarton Bridge. Using the CTR standard, 1% (6) of the samples exceed it.
	PAHs, PBDEs	For PAHs: Did not exceed threshold concentrations for adverse effects to fish embryos. For PBDEs: No available WQ criterion/objective. Occasional exceedances of the human health criteria in ambient samples, evidence of increasing shellfish concentrations, and preponderance of PAHs at toxic sites warrant increased assessment activities for PAHs by dischargers and cities around the region. RMP resources will be expected to better assess PAH impacts in the estuary, since the current spatial and temporal coverage does not address areas near the shoreline that may be greater impacted by PAHs in discharges of urban runoff and other sources.
		PBDEs research literature will be reviewed by the RWQCB to ascertain any new information on actual effects thresholds for these persistent bioaccumulative substances in the next listing cycle. These actions can be conducted regionally through the RMP, the Bay Area Pollution Prevention Group, or other association of dischargers. During the subsequent listing cycle, RWQCB staff evaluation of current research, applicable water quality criteria, and local actions to characterize sources and pollution prevention of PBDEs will determine whether a listing is needed.
San Pablo Bay	7	Ç
	Copper	Data = 466 samples total collectively for S.F. Bay segments North of the Dumbarton Bridge. Since March 1993, there have been 6 exceedances, and there have been no exceedances of the objective since 1997.
	Nickel	Data = 463 samples total collected for S.F. Bay segments North of the Dumbarton Bridge. Using the CTR standard, there have been no exceedances since March of 1993.
	PAHs, PBDEs	For PAHs: Did not exceed threshold concentrations for adverse effects to fish embryos. For PBDEs: No available WQ criterion/objective. Occasional exceedances of the human health criteria in ambient samples, evidence of increasing shellfish concentrations, and preponderance of PAHs at toxic sites warrant increased assessment activities for PAHs by dischargers and cities around the region. RMP resources will be expected to better assess PAH impacts in the estuary, since the current spatial and temporal coverage does not address areas near the shoreline that may be greater impacted by PAHs in discharges of urban runoff and other sources.
		PBDEs research literature will be reviewed by the RWQCB to ascertain any new information on actual effects thresholds for these persistent bioaccumulative substances in the next listing cycle. These actions can be conducted regionally through the RMP, the Bay Area Pollution Prevention Group, or other association of dischargers. During the subsequent listing cycle, RWQCB staff evaluation of current research, applicable water quality criteria, and local actions to characterize sources and pollution prevention of PBDEs will determine whether a listing is needed.
Suisun Bay		
	Copper	Data = 466 samples total collectively for S.F. Bay segments North of the Dumbarton Bridge. Since March 1993, there have been 6 exceedances, and there have been no exceedances of the objective since 1997.
	Nickel	Data = 463 samples total collectively for S.F. Bay segments North of the Dumbarton Bridge. Using the CTR standard, there have been no exceedances since March of 1993.

Water Body	Pollutant/Stressor	Rationale
	PAHs, PBDEs	For PAHs: Did not exceed threshold concentrations for adverse effects to fish embryos. For PBDEs: No available WQ criterion/objective. Occasional exceedances of the human health criteria in ambient samples, evidence of increasing shellfish concentrations, and preponderance of PAHs at toxic sites warrant increased assessment activities for PAHs by dischargers and cities around the region. RMP resources will be expected to better assess PAH impacts in the estuary, since the current spatial and temporal coverage does not address areas near the shoreline that may be greater impacted by PAHs in discharges of urban runoff and other sources.
		PBDEs research literature will be reviewed by the RWQCB to ascertain any new information on actual effects thresholds for these persistent bioaccumulative substances in the next listing cycle. These actions can be conducted regionally through the RMP, the Bay Area Pollution Prevention Group, or other association of dischargers. During the subsequent listing cycle, RWQCB staff evaluation of current research, applicable water quality criteria, and local actions to characterize sources and pollution prevention of PBDEs will determine whether a listing is needed.
Urban Creeks Region	of San Francisco Bay	
	Trash	More data and information are needed documenting in space and time the abundance and amount of trash and debris in urban creeks of the San Francisco Bay Region.
		Guadelupe River: Thirty-four photographs were submitted depicting what appeared to be locations along the River. The trash included plastic bottles, styrofoam cups, paper wrappers, wood debris, and other unidentifiable debris.
		San Leandro Creek: Six photographs were submitted depicting what appeared to be locations along the Creek. The trash included accumulations of plastic bottles, styrofoam cups, paper wrappers, wood debris, shopping carts, aluminum cans, and other unidentifiable debris.
		Damon Slough: Six photographs were submitted depicting what appeared to be locations along the Slough. The trash included accumulations of plastic bottles, styrofoam cups, paper wrappers, wood debris, shopping carts, aluminum cans, and other unidentifiable debris.
		Glen Echo Creek: Two photographs were submitted depicting what appeared to be locations along the Creek. The trash included accumulations of plastic, styrofoam cups, paper wrappers, wood debris, shopping carts, and other unidentifiable debris.

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Regional Water Quality Control Board CENTRAL COAST REGION (3)



SECTION 303 (d) LIST PROPOSALS



Region 3: Alamo Creek Fecal Coliform

Water Body Alamo Creek

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Water Quality Objective are applicable to REC-1.

Water Body-specific Information Data age = 1-2 years old.

Data used to assess water quality 14 bacterial samples, 8 samples exceeding (57%) WQO.

Spatial representation 1 site.

Temporal representation Monthly sampling events

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant

Natural sources, Agriculture, Range Land.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate.
- 2. The data exhibited adequate spatial and sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body information considered includes age of the data.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Alisal Creek (Salinas)

Nitrate

Water Body Alisal Creek (Salinas)

Stressor/Media/Beneficial Use Nitrate/Water/Drinking Water

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Nitrate WQO is linked to MUN.

Utility of measure for judging if standards or uses are not attained

Exceedences of Basin Plan Water quality objectives in place for the protection of Municipal Drinking Water is applicable.

Water Body-specific Information Samples taken from 7/28/99 - 2/10/00.

Data used to assess water quality 6 samples with 5 exceedences.

Spatial representation 1 sampling site.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown

Alternative Enforceable Program N/A

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body age of the data were considered.

Most of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 3: Alisal Creek (Salinas) Dissolved Oxygen

Water Body Alisal Creek (Salinas)

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen WQO is linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

Water quality objective is applicable to Aquatic Life.

Water Body-specific Information Samples taken from 7/28/1999 to 2/10/2000 over 6 sampling dates.

Data used to assess water qualityDissolved Oxygen; 6 samples with 1 exceedence.

Spatial representation 1 sampling site.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program N/A

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list for dissolved oxygen because applicable water quality standard is not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard for dissolved oxygen. The staff confidence that standards were not exceeded is moderate.

Region 3: Alisal Creek (Salinas) Fecal Coliform

Water Body Alisal Creek (Salinas)

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

ment endpoint Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Water Quality Objective are applicable to REC-1.

Water Body-specific Information Data age = 2-3 years old.

Data used to assess water quality 6 bacteria samples, 5 samples exceeding (83%) WQO.

Spatial representation 1 site

Temporal representation Summer, fall, winter sampling events.

Data type Numerical data.

Use of standard methodCentral Coast Ambient Monitoring Program (CCAMP) QA/QC methods.

Potential Source(s) of Pollutant Urban Runoff, Natural Sources, Nonpoint sources, Agriculture

Alternative Enforceable Program N/A

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB documentation for this recommendation SWRCB staff conclude that the staff concludes the staff

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or

causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body information considered includes age of the data.

Most of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Arroyo Seco River Dissolved Oxygen

Water Body Arroyo Seco River

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen WQOs are linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

Dissolved Oxygen WQO is applicable to Aquatic Life.

Water Body-specific Information Samples taken from 2/1/99 to 4/24/2000 over 17 sampling dates.

Data used to assess water qualityDissolved Oxygen: 20 samples with 3 exceedences.

Spatial representation 2 sampling sites.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g. induced by low-flow during dry seasons, or anthropogenically induced;

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because

applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standards. The staff confidence that standards were not exceeded moderate.

Region 3: Arroyo Seco River Fecal Coliform

Water Body Arroyo Seco River

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO exceedences are applicable.

Water Body-specific Information Samples taken from 2/99-4/00; 10 sampling dates (some sampling dates

have multiple samples).

Data used to assess water quality 18 samples, 3 exceeding WQO.

Spatial representation 2 stations.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 3: Atascadero Creek (San Luis Obispo County) Dissolved Oxygen

Water Body Atascadero Creek (San Luis Obispo County)

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen WQO is linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Samples taken from 4/7/99 to 5/15/2000 over 18 sampling dates.

Data used to assess water qualityDissolved Oxygen: 21 samples with 14 exceedences.

Spatial representation 1 sampling site.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g. induced by low-flow during dry seasons, or anthropogenically induced;

e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes

to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

Most of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Atascadero Creek (San Luis Obispo County) Fecal Coliform

Water Body Atascadero Creek (San Luis Obispo County)

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Samples taken from 4/99-5/00; 16 sampling dates (some sampling dates

have multiple samples).

Data used to assess water quality 22 samples, 8 samples exceeding WQO.

Spatial representation 1 station.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Bean Creek Sedimentation-Siltation

Water Body Bean Creek

Stressor/Media/Beneficial Use Sedimentation-Siltation/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Data quality assurance procedures used. Assessment made of the consistency of methods used.

Linkage between measurement endpoint and benefical use or standard

Geomorphological data is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

Sedimentation can directly affect Aquatic Life.

Water Body-specific Information

Data 1-3 years old, samples collected from site, one time sample event.

Data used to assess water quality

Riffle/Run Embeddedness = 50% samples exceed at site 14a, 60% samples exceed at site 14b, 52% samples exceed at Site B-1, 50% samples exceeded at Site B-2, 60% samples exceeded at Site B-3 and 49% samples exceeded at B-4. For Fine Sediment in Riffles 45% exceeded at Site 14a, 42% samples exceeded at Site B-2 and 55% samples exceeded at Site B-3. For D50: 37mm (minimum for a reach) 24mm for site B-1, 25mm for site B-2 and 6mm for Site B-3. Data showed impacts on fish population due to sedimentation/siltation in 1998 and 1999.

Spatial representation Zig-Zag sample design, 10 samples.

Temporal representationLate spring-early summer.

Data type Numerical data.

Use of standard method Standard methods were used.

Potential Source(s) of Pollutant Improper/illegal grading of private roads and home sites, lack of vegetation

around home sites, residential use, roads, quarry.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited adequate spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.

Region 3: Bean Creek Sedimentation-Siltation

 $8. \ Other \ water \ body- \ information including \ riffle/run \ embeddedness \ and \ age \ of the \ data \ were \ considered.$

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate, uncertain on how interpret riffle/run embeddedness.

Region 3: Bear Creek (Santa Cruz County) Sedimentation-Siltation

Bear Creek (Santa Cruz County) Water Body

Stressor/Media/Beneficial Use Sedimentation-Siltation/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. Data quality assurance procedures used. Assessment made of the

consistency of methods used.

Linkage between measurement endpoint

and benefical use or standard

Geomorphological data linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained Sedimentation can directly affect Aquatic Life.

Water Body-specific Information

Data 1-3 years old, Samples collected from site, one time sample event.

Data used to assess water quality

Riffle/Run Embeddedness = 40% samples exceed at Site 17a, 37.5% samples exceed at Site 17b and 45% samples exceed at Site 17c. Data showed impacts on fish population due to sedimentation/siltation in 1998

and 1999.

Zig-Zag sample design, 10 samples. Spatial representation

Temporal representation Late spring-early summer.

Data type Numerical data.

Use of standard method Standard methods were used.

Potential Source(s) of Pollutant Improper/illegal grading of private roads and home sites, lack of vegetation

around home sites, residential use, recreation and timber.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited adequate spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body- information including riffle/run embeddedness and age of the data were considered.

An adequate number of the water quality measurements exceeded the water

Region 3: Bear Creek (Santa Cruz County) Sedimentation-Siltation

quality standard. The staff confidence that standards were exceeded is moderate, uncertain on how interpret riffle/run embeddedness.

Region 3: Blosser Channel Fecal Coliform

Water Body Blosser Channel

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data age = 1-2 years old.

Data used to assess water quality 10 Bacteria samples, 5 samples exceeding (50%) WQO.

Spatial representation 1 site

Temporal representation Monthly sampling events, excluding the dry season.

Data type Numerical data.

Use of standard methodCentral Coast Ambient Monitoring Program (CCAMP).

Potential Source(s) of Pollutant Agriculture, Pasture Lands, Urban Runoff, Storm water, Natural Sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information considered includes age of the data.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Blosser Channel Dissolved Oxygen

Water Body Blosser Channel

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen WQO is linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Samples taken from 5/3/2000 to 2/28/2001 over 12 sampling dates.

Data used to assess water quality Dissolved Oxygen; 14 samples with 2 exceedences.

Spatial representation 1 sampling site.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant

Unknown, low dissolved oxygen can be a natural phenomenon, e.g. induced by low-flow during dry seasons, or anthropogenically induced;

e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because

applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is moderate.

Region 3: Boulder Creek Sedimentation-Siltation

Water Body Boulder Creek

Stressor/Media/Beneficial Use Sedimentation-Siltation/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Data quality assurance procedures used. Assessment made of the consistency of methods used.

Linkage between measurement endpoint and benefical use or standard

Geomorphological data linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

Sedimentation can directly affect Aquatic Life.

Water Body-specific Information Data 1-3 ve

Data 1-3 years old, Samples collected from site, one time sample event.

Data used to assess water quality Riffle/Run Embeddedness = 40% samples exceed at site 17a, and 37.5%

samples exceed at site 18b. Data showed impacts on fish population due to

sedimentation/siltation in 1998 and 1999.

Spatial representation Zig-Zag sample design, 10 samples.

Temporal representation Late spring-early summer.

Data type Numerical data.

Use of standard method Standard methods were used.

Potential Source(s) of Pollutant Improper/illegal grading of private roads and home sites, lack of vegetation

around home sites, residential use, vineyards and timber.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited adequate spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body- information including riffle/run embeddedness and age of the data were considered.

Region 3: Boulder Creek Sedimentation-Siltation

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate, uncertain on how to interpret riffle/run embeddedness.

Region 3: Bradley Canyon Creek Dissolved Oxygen

Water Body Bradley Canyon Creek

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Low oxygen levels linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

Exceedences of Basin Plan water quality objective in place for the protection of aquatic life is applicable.

Water Body-specific Information Samples taken from 1/12/2000 to 1/29/2001 over 19 sampling dates.

Data used to assess water qualityDissolved Oxygen: 9 samples with 2 exceedences.

Spatial representation 3 sampling sites.

Temporal representation Monthly sampling.

Data type Numerical.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is moderate.

Region 3: Bradley Canyon Creek Fecal coliform

Water Body Bradley Canyon Creek

Stressor/Media/Beneficial Use Fecal coliform/water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO are applicable to REC-1.

Water Body-specific Information Data age = 1-2 years old.

Data used to assess water quality 25 Bacteria samples, 15 samples exceeding (60% WQO violations).

Spatial representation 3 Stations.

Temporal representation Monthly sampling events, excluding the dry season.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Agriculture, Pasture Lands, Urban Runoff, Storm water, Natural Sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or

causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate.
- $2. \ The \ data \ exhibited \ sufficient \ spatial \ and \ temporal \ coverage.$
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information considered includes age of the data.

Adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Bradley Canyon Creek Nitrate

Water Body Bradley Canyon Creek

Stressor/Media/Beneficial Use Nitrate/Water/MUN

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Nitrate WQO is linked to MUN.

Utility of measure for judging if standards or uses are not attained

WQOs are applicable to MUN.

Water Body-specific Information Samples taken from 3/12/00 to 12/07/00. There were 8 sampling dates.

Data used to assess water quality 8 samples, 4 samples exceeding.

Impacts on dissolved oxygen were not observed and it is likely that the

nitrate concentrations are not impacting beneficial uses.

Spatial representation 1 sampling site.

Temporal representation Monthly sampling. **Data type** Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because it cannot be determined if the applicable water quality standards are

exceeded.

This conclusion is based on the staff findings that:

- 1. The data exhibited insufficient temporal coverage.
- 2. Data are numerical.
- 3. Standard methods were used.
- 4. Other water body information including age of the data were

considered.

An inadequate amount of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not

exceeded is moderate.

Region 3: Bradley Channel Fecal Coliform

Water Body Bradley Channel

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal coliform WQO is linked to Rec-1.

Utility of measure for judging if standards or uses are not attained

WQO are applicable to REC-1.

Water Body-specific Information Samples taken from 1/00-2/01; 14 sampling dates.

Data used to assess water quality 14 samples, 7 samples exceeding WQO.

Spatial representation 1 sample site.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 3: Bradley Channel Dissolved Oxygen

Water Body Bradley Channel

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen WQO is linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Samples taken from 1/11/2000 to 2/28/2001; over 17 sampling dates.

Data used to assess water qualityDissolved Oxygen: 17 samples with 4 exceedences.

Spatial representation 1 sampling site.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g. induced by low-flow during dry seasons, or anthropogenically induced;

e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because

applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is moderate.

Region 3: Bradley Channel Nitrate

Water Body Bradley Channel

Stressor/Media/Beneficial Use Nitrate/Water/MUN

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC

Linkage between measurement endpoint and benefical use or standard

Nitrate WQO is linked to MUN.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to MUN.

Water Body-specific Information Samples taken from 1/11/00 to 2/28/01.

Data used to assess water quality 15 samples with 3 exceedences.

Spatial representation 1 sampling sites.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited insufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements collected. The staff confidence that standards were not exceeded is moderate.

Region 3: Branciforte Creek Sedimentation-Siltation

Water Body Branciforte Creek

Stressor/Media/Beneficial Use Sedimentation-Siltation/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Data quality assurance procedures used. Assessment made of the consistency of methods used.

Linkage between measurement endpoint and benefical use or standard

Geomorphological data linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

Sedimentation can directly affect Aquatic Life.

Water Body-specific Information Data = 3-4 years old (1998 and 1999), samples collected from site.

Data used to assess water qualityRiffle/Run Embeddedness = 60% samples exceed at Site 21a and 37.5% samples exceed at Site 21b. Data showed impacts on fish population due

to sedimentation/siltation in 1998 and 1999.

Spatial representation Zig-Zag sample design, 10 samples.

Temporal representation Late spring-early summer.

Data type Numerical data.

Use of standard method Standard methods were used.

Potential Source(s) of Pollutant Logging in upper watershed, improper/illegal.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited adequate spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body- information including riffle/run embeddedness and age of the data were considered.

An adequate number of the water quality measurements exceeded the water

Region 3: Branciforte Creek Sedimentation-Siltation

quality standard. The staff confidence that standards were exceeded is moderate, uncertain on how to interpret riffle/run embeddedness.

Region 3: Carpinteria Creek Virus

Water Body Carpinteria Creek

Stressor/Media/Beneficial Use Virus/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Unknown

Linkage between measurement endpoint and benefical use or standard

Virus with Bacteria WQO are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Virus detection methodology not conclusive enough to indicate a virus problem, 30% of the samples has positive results for presence of a virus. There are too few virus data points during the most sensitive period (typically winter for pathogens). These water bodies are already covered by the existing 303(d) list. Bacteria reductions recommended through TMDLs for these waters will also result in virus reductions.

Water Body-specific Information Data was not presented.

Data used to assess water qualityData was not presented.

Spatial representation Data was not presented.

Temporal representation Data was not presented.

Data type Data was not presented.

Use of standard method Approved methodologies were not used.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation Do not list.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be included on the 303(d) list because the water body is on an existing list for bacteria and pathogens which will address viruses.

This conclusion is based on the staff findings that:

- 1. The data is considered to be inadequate quality.
- 2. The evaluation guideline used to interpret narrative water quality standards is inadequate.
- 3. Non-standard methods were used.
- 4. Other water body information considered is unknown.

It is unknown whether any of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is extremely low.

Region 3: Cholame Creek Fecal Coliform

Water Body Cholame Creek

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

int Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data age = 2-3 years old.

Data used to assess water quality 10 bacterial samples, 8 samples exceeding (80%) WQO.

Spatial representation 1 site

Temporal representation Monthly sampling events, excluding the dry season.

Data type Numerical.

Use of standard methodCentral Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Pasture lands, nonpoint sources, natural sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the

water body should

be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body information considered includes age of the data.

Most of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Cholame Creek Dissolved Oxygen

Water Body Cholame Creek

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen is linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

 $\ensuremath{\mathsf{WQO}}$ is applicable to COLD and WARM beneficial use protection.

Water Body-specific Information Data: 2-3 years old (2/2/99 to 2/8/2000); over 10 sampling dates.

Data used to assess water qualityDissolved Oxygen: 13 samples with 2 exceedences.

Spatial representation 1 sampling site.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant

Unknown, low dissolved oxygen can be a natural phenomenon, e.g. induced by low-flow during dry seasons, or anthropogenically induced;

e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because

applicable water quality standards are exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is moderate.

Region 3: Cholame Creek Boron

Water Body Cholame Creek

Stressor/Media/Beneficial Use Boron/Water/Agricultural Water Supply

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Boron WQO is linked to Agricultural Water Supply.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Agricultural Water Supply.

Water Body-specific Information Samples taken from 5/99-2/00; 6 sampling dates.

Data used to assess water quality 7 samples, 7 samples exceeding WQO.

Spatial representation 1 station.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard methodCentral Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown; may be natural condition.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

All of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Chorro Creek Fecal Coliform

Water Body Chorro Creek

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Morro Bay National Monitoring Program (MBNMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data: 3-9 years old (6/93 to 5/99).

Data used to assess water quality 869 samples, 193 samples exceeding WQO.

Spatial representation 6 stations.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard methodMorro Bay National Monitoring Program (MBNMP) methodology.

Potential Source(s) of Pollutant Unknown

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Chorro Creek Metals

Water Body Chorro Creek

Stressor/Media/Beneficial Use Metals/Sediment/Aquatic Life (Habitat Uses)

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/Q.

Linkage between measurement endpoint and benefical use or standard

Metal WQOs are linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

Recently collected data show that standards appear to be met. The original assessment was based on two sample locations outside of Chorro Creek.

Water Body-specific Information The data originally used to support this listing decision was not collected

in the water body.

Data used to assess water qualityNew data was not presented.

Spatial representation Data not collected in Chorro Creek and does not represent conditions in

the creek.

Temporal representation Unknown

Data type N/A

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown

Alternative Enforceable Program Siltation TMDL is expected to reduce metal loads.

RWQCB Recommendation Delist because data was obtain from outside the waterbody.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because data used in listing is insufficient. Data were not collected in Chorro Creek and

do not represent the conditions in the creek.

Region 3: Chumash Creek Dissolved Oxygen

Water Body	Chumash Creek
Water Body	Chulliash Creek

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Morro Bay National Monitoring Program (MBNMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen is linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

Exceedances of Basin Plan water quality objective in place for the protection of aquatic life.

Water Body-specific Information Samples taken from 6/8/93 to 5/10/99 with over 62 sampling dates.

Data used to assess water quality Dissolved Oxygen: 230 samples with 35 exceedances.

Nutrients are not considered to be a problem in this water body. Only four samples of 198 measurements exceeded the water quality objective for pitrate.

nitrate.

Spatial representation 1 sampling site.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Morro Bay National Monitoring Program (MBNMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWOCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the list for dissolved oxygen because the applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the

Region 3: Chumash Creek Dissolved Oxygen

water quality standards for dissolved oxygen. The staff confidence that standards were exceeded is high.

Region 3: Chumash Creek Fecal Coliform

Water Body Chumash Creek

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Morro Bay National Monitoring Program (MBNMP) QA/QC methodology.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data: 3-9 years old (6/93-5/99).

Data used to assess water quality 246 samples, 70 samples exceeding WQO.

Spatial representation 1 station.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard methodMorro Bay National Monitoring Program (MBNMP) methodology.

Potential Source(s) of Pollutant Unknown

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Corralitos Creek Fecal Coliform

Water Body Corralitos Creek

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data: 4-5 years old (Samples taken from 12/97 to 12/98).

Data used to assess water quality 13 samples, 4 samples exceeding WQO.

Spatial representation 1 station.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard methodCentral Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 3: Corralitos Creek Dissolved Oxygen

Water Body Corralitos Creek

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen is linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQOs is applicable to Aquatic Life.

Water Body-specific Information Data: 3-5 years old (Samples were taken from 8/18/1997 to 12/16/1998;

over 15 sampling dates).

Data used to assess water qualityDissolved Oxygen: 16 samples with 4 exceedences.

Spatial representation 1 sampling site.

Temporal representation Monthly sampling. **Data type** Numerical data.

Use of standard methodCentral Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is moderate.

Region 3: Cuyama River Boron

Water Body Cuyama River

Stressor/Media/Beneficial Use Boron/Water/Agricultural Water Supply

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Boron is linked to Basin Plan Agricultural Water Supply.

Utility of measure for judging if standards or uses are not attained

WQO are applicable to Agricultural Water Supply.

Water Body-specific Information

Data: 2 year old (Samples taken from 4/00 to 12/00; 5 sampling dates).

Data used to assess water quality 43 samples, 3 samples exceeding WQO.

Spatial representation 4 sample sites.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown; may be natural condition.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is moderate.

Region 3: Dairy Creek Fecal Coliform

Water Body Dairy Creek

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Morro Bay National Monitoring Program (MBNMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO are applicable to REC-1.

Water Body-specific Information Data: 3-9 years old (Samples taken from 6/93 to 5/99).

Data used to assess water quality 635 samples, 156 samples exceeding WQO.

Spatial representation 3 stations.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard methodMorro Bay National Monitoring Program (MBNMP) methodology.

Potential Source(s) of Pollutant Unknown

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 8. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 3: Dairy Creek Dissolved Oxygen

Water Body Dairy Creek

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Morro Bay National Monitoring Program (MBNMP) QA/Q.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen WQO is linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to COLD and WARM beneficial uses.

Water Body-specific Information Data: 3-7 years old (Samples taken from 6/8/1993 to 5/10/1999 over 291

sampling dates).

Data used to assess water quality Dissolved Oxygen; 602 samples with 110 exceedences.

Spatial representation 3 sampling sites.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Morro Bay National Monitoring Program (MBNMP) methodology.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list for dissolved oxygen because applicable water quality standard is exceeded and it is probable that a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard for dissolved oxygen. The staff confidence that standards were exceeded is high.

Region 3: Elkhorn Slough Dissolved Oxygen

Water Body Elkhorn Slough

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen WQO is linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Data: 2-3 years old (Samples taken from 3/1/1999 to 3/7/2000; over 14

sampling dates).

Data used to assess water qualityDissolved Oxygen: 15 samples with 4 exceedences.

Spatial representation 1 sampling site.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is moderate.

Region 3: Fall Creek Sedimentation-Siltation

Water Body Fall Creek

Stressor/Media/Beneficial Use Sedimentation-Siltation/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Data quality assurance procedures used. Assessment made of the consistency of methods used.

Linkage between measurement endpoint and benefical use or standard

Geomorphological data linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

Sedimentation can directly affect Aquatic Life.

Water Body-specific Information Data = 1-2 years old (1998 and 1999), samples collected from site.

Data used to assess water quality

Riffle/Run Embeddedness =47.5% samples exceed at Site 15. For Fine Sediment in Riffles = 40% samples exceed at Site15 (Sample size unknown in all cases). Data showed impacts on fish population due to

sedimentation/siltation in 1998 and 1999.

Spatial representation Zig-Zag sample design, 10 samples.

Temporal representation Late spring-early summer.

Data type Numerical data.

Use of standard method Standard methods were used.

Potential Source(s) of Pollutant Trail system in Fall State Park (stream mile 1 and above), bank

erosion/slumping, Residential use, road, trails.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited adequate spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body- information including riffle/run embeddedness and age of the data were considered.

An adequate number of the water quality measurements exceeded the water

Region 3: Fall Creek Sedimentation-Siltation

quality standard. The staff confidence that standards were exceeded is moderate, uncertain on how to interpret riffle/run embeddedness.

Region 3: Gabilan Creek Fecal Coliform

Water Body Gabilan Creek

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data age = 2-3 years old.

Data used to assess water quality 6 bacteria samples, 6 samples exceeding (100%) WQO.

Spatial representation 1 site

Temporal representation Spring and winter sampling events during 1999 - 2000.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Urban Runoff, Natural Sources, Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information considered includes age of the data.

All of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 3: Kings Creek Sedimentation-Siltation

Water Body Kings Creek

Stressor/Media/Beneficial Use Sedimentation-Siltation/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Data quality assurance procedures used. Assessment made of the consistency of methods used.

Linkage between measurement endpoint and benefical use or standard

Geomorphological data linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

Sedimentation can directly affect Aquatic Life.

Water Body-specific Information Data = 2 years (1998 and 1999), samples were collected from site.

Data used to assess water qualityRiffle/Run Embeddedness = 52.5% sample exceed at site 19b. Data showed impacts on fish population due to sedimentation/siltation in 1998

and 1999.

Spatial representation Zig-Zag sample design, 10 samples.

Temporal representationLate spring-early summer.

Data type Numerical data.

Use of standard method Standard methods were used.

Potential Source(s) of Pollutant Improper/illegal grading of private roads and home sites, lack of vegetation

around home sites, residential use, roads and timber.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited adequate spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body- information including riffle/run embeddedness and age of the data were considered.

Region 3: Kings Creek Sedimentation-Siltation

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate, uncertain on how to interpret riffle/run embeddedness.

Region 3: La Brea Creek Fecal Coliform

Water Body La Brea Creek

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC

Linkage between measurement endpoint and benefical use or standard

Fecal coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO are applicable to REC-1.

Water Body-specific Information Data: 1-2 years old (samples taken from 1/12/00 to 2/28/01).

Data used to assess water quality 143 samples, 3 samples exceeding WQO.

Spatial representation 1 sampling site

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methodology.

Potential Source(s) of Pollutant Unknown

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is moderate.

Region 3: LaBrea Creek Dissolved Oxygen

Water Body LaBrea Creek

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen WQO linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO is linked to Aquatic Life.

Water Body-specific Information

Data: 1-2 years old (samples taken from 1/12/2000 to 2/28/2001; over 18

sampling dates).

Data used to assess water qualityDissolved Oxygen: 19 samples with 3 exceedences.

Spatial representation 1 sampling site.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methodology.

Unknown, low dissolved oxygen can be a natural phenomenon, e.g. induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

Potential Source(s) of Pollutant

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because

applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is moderate.

Region 3: Llagas Creek TDS

Water Body	Llagas Creek
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Stressor/Media/Beneficial Use TDS/Water/Aquatic Life and Agriculture

Data quality assessment. Extent to which data quality requirements met.

South County Regional Wastewater Authority (SCRWA) QA/QC

Linkage between measurement endpoint and benefical use or standard

TDS WQO is linked to Aquatic Life and Agriculture.

Utility of measure for judging if standards or uses are not attained

WQOs are applicable to Aquatic Life and Agriculture.

Water Body-specific Information Data age = 2-4 years old.

Data used to assess water quality 90 water samples, 90 sample exceeding (100%) WQO.

Spatial representation 4 Stations.

Temporal representation Quarterly sampling events.

Data type Numerical data.

Use of standard method South County Regional Wastewater Authority (SCRWA) methods.

Potential Source(s) of Pollutant Nonpoint and point sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including age of the data were considered.

All of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Llagas Creek Sodium

Water Body Llagas Creek

Stressor/Media/Beneficial Use Sodium/Water/Agriculture, Aquatic Life and Drinking Water

Data quality assessment. Extent to which data quality requirements met.

South County Regional Wastewater Authority (SCRWA) QA/QC

Linkage between measurement endpoint and benefical use or standard

Sodium is linked to Agriculture, Aquatic Life and Drinking Water.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Agriculture, Aquatic Life and Drinking Water.

Water Body-specific Information Data age = 2-10 years old.

Data used to assess water quality 78 water samples, 60 sample exceeding (77%) WQO.

Spatial representation 4 Stations.

Temporal representation Quarterly sampling events.

Data type Numerical data.

Use of standard method South County Regional Wastewater Authority (SCRWA) methods.

Potential Source(s) of Pollutant Nonpoint and unknown sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including age of the data were considered.

Most of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Llagas Creek Dissolved Oxygen

Water Body Llagas Creek

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

South County Regional Wastewater Authority (SCRWA) QA/QC

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen WQO is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Data age = 2-4 years old. Samples taken between 12/18/97 and 1/7/99

over 30 sampling dates.

Data used to assess water quality

Dissolved Oxygen: 90 samples with 16 exceeding the WQO.

Spatial representation 7 Stations.

Temporal representation Quarterly sampling events.

Data type Numerical data.

Use of standard method South County Regional Wastewater Authority (SCRWA) methods.

Potential Source(s) of Pollutant Nonpoint and point source.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including season and age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is high.

Region 3: Llagas Creek pH

Water Body Llagas Creek

Stressor/Media/Beneficial Use pH/Water/Aquatic Life and MUN

Data quality assessment. Extent to which data quality requirements met.

South County Regional Wastewater Authority (SCRWA) QA/QC

Linkage between measurement endpoint and benefical use or standard

pH WQO is linked to Aquatic Life and MUN.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life and MUN.

Water Body-specific Information Data age = 2-4 years old.

Data used to assess water quality 128 samples, 42 samples exceeding.

Spatial representation 4 stations.

Temporal representation Quarterly sampling events.

Data type Numerical data.

Use of standard method South County Regional Wastewater Authority (SCRWA) methodology.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Llagas Creek Fecal Coliform

Water Body Llagas Creek

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO applicable to REC-1.

Water Body-specific Information Data age = 3-4 years old.

Data used to assess water quality 41 bacteria samples, 26 samples exceeding (63%) WQO.

Spatial representation 3 Stations.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Pasture lands, nonpoint sources, natural sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information considered includes age of the data.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Llagas Creek Chloride

Water Body Llagas Creek

Stressor/Media/Beneficial Use Chloride/Water/Agriculture and Drinking Water

Data quality assessment. Extent to which data quality requirements met.

South County Regional Wastewater Authority (SCRWA) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Chloride WQO is linked to Agriculture and Drinking Water.

Utility of measure for judging if standards or uses are not attained

Site-specific WQO applicable to Agriculture and Drinking Water.

Water Body-specific Information Data age = 2-10 years old.

Data used to assess water quality 78 water samples, 78 samples exceeding (100%) WQO.

Spatial representation 4 Stations.

Temporal representation Quarterly sampling events.

Data type Numerical data.

Use of standard method South County Regional Wastewater Authority (SCRWA) methodology.

Potential Source(s) of Pollutant Nonpoint and point sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including age of the data were considered.

All of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Los Osos Creek Fecal Coliform

Water Body Los Osos Creek

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Morro Bay National Monitoring Program (MBNMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO are applicable to REC-1.

Water Body-specific Information Data age = 3-6 years old (samples taken from 3/96 to 5/99).

Data used to assess water quality 242 samples, 63 samples exceeding WQO.

Spatial representation 2 stations.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard methodMorro Bay National Monitoring Program (MBNMP) methodology.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Los Osos Creek Priority organics

Water Body Los Osos Creek

Stressor/Media/Beneficial Use Priority organics/Water--Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC

Linkage between measurement endpoint and benefical use or standard

Priority Organic WQO is linked to Aquatic life

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information The data are one year old. Samples were collected in the Spring and

Summer of 2001. Two sampling events at most of the 5 sites for both water and sediment. The total number of samples collected during the 2

sampling events were 9 water and 8 sediment samples.

Data used to assess water quality

9 water sample/0 samples exceeding and 8 sediment samples/0 samples

exceeding. The results indicate chemical in concentrations below NOAA

and ERMs.

Spatial representation Five sites.

Temporal representation Two sampling events in 2001.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation Delist because new data points towards no impairment. Most current data

indicates WQO per CTR and BP are met.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB documentation for this recommendation. SWPCB staff conclude that

documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because applicable water quality standards are not exceeded in sediment or water.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of season and age of the data were considered.

None of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is high.

Region 3: Los Osos Creek Dissolved Oxygen

Los Osos Creek Water Body

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. Morro Bay National Monitoring Program (MBNMP) QA/QC

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen WQO is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained WQO is applicable to aquatic life protection.

Water Body-specific Information Data age = 3-7 years old. Samples taken from 1/26/94 to 5/10/99 with over

147 sampling dates.

Data used to assess water quality 251 water samples, 44 samples exceeding WQO.

2 Stations. **Spatial representation**

Temporal representation Sampled monthly during all seasons.

Data type Numerical data.

Use of standard method Morro Bay National Monitoring Program (MBNMP) methodology.

Potential Source(s) of Pollutant Agriculture, Urban Runoff, Pasture Lands, Unknown Sources.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because

applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that: 1. The data is considered to be of adequate quality.

- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body information including age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is high.

Region 3: Love Creek Sedimentation-Siltation

Water Body Love Creek

Stressor/Media/Beneficial Use Sedimentation-Siltation/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Data quality assurance procedures used. Assessment made of the consistency of methods used.

Linkage between measurement endpoint and benefical use or standard

Geomorphological data linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

Sedimentation can directly affect Aquatic Life.

Water Body-specific Information Data = 2 years old (samples taken in 1998 and 1999), Samples collected

from site.

Data used to assess water quality Riffle/Run Embeddedness = 44% samples exceed at Site L-1. For D50: 37

= 30mm sample at Site Z-8. Data showed impacts on fish population due

to sedimentation/siltation in 1998 and 1999.

Spatial representation Zig-Zag sample design, 10 samples.

Temporal representationLate spring-early summer.

Data type Numerical data.

Use of standard method Standard methods were used.

Potential Source(s) of Pollutant Improper/illegal grading of private roads and home sites, lack of vegetation

around home sites, agriculture, residential use, roads and timber.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited adequate spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body- information including riffle/run embeddedness and age of the data were considered.

An adequate number of the water quality measurements exceeded the water

Region 3: Love Creek Sedimentation-Siltation

quality standard. The staff confidence that standards were exceeded is moderate, uncertain on how to interpret riffle/run embeddedness.

Region 3: Main Street Canal **Nitrate**

Main Street Canal Water Body

Stressor/Media/Beneficial Use Nitrate/Water/Drinking Water

Data quality assessment. Extent to which data quality requirements met. Central Coast Ambient Monitoring Program (CCAMP) QA/QC

Linkage between measurement endpoint

and benefical use or standard

Nitrate WQO is linked to Drinking Water.

Utility of measure for judging if standards or uses are not attained WQO is applicable to Drinking Water.

Water Body-specific Information Data age = 1-2 years old.

Data used to assess water quality 10 water samples, 6 samples exceeding (60%) WQO.

1 site. **Spatial representation**

Monthly sampling events. **Temporal representation**

Numerical data. Data type

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Agriculture, Nonpoint Sources and Urban Runoff.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including age of the data were considered.

Most of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Majors Creek Turbidity

Water Body Majors Creek

Stressor/Media/Beneficial Use Turbidity/Water/MUN and Aquatic life (WARM, COLD, SPWN)

Data quality assessment. Extent to which data quality requirements met.

City of Santa Cruz data, QAPP unknown.

Linkage between measurement endpoint and benefical use or standard

Heavy sedimentation affects drinking water quality and habitat functions.

Utility of measure for judging if standards or uses are not attained

Narrative objective: Waters shall be free of changes in turbidity that cause nuisance or adversely affect beneficial uses.

Water Body-specific Information

The City of Santa Cruz staff have stated this watershed is experiencing increasingly frequent periods of high turbidity associated with the heavy sedimentation attributed to natural background erosion sources, the large network of unmaintained seasonal rads, log jam related stream bank erosions, feral pig activity and other factors. In addition to drinking water quality and production challenges posed by these conditions, the channel itself (especially the East Branch) is choked with sediment, thereby limiting habitat functions.

Data used to assess water quality

The City describes high turbidity associated with heavy sedimentation due to erosion, seasonal roads, log jam-related erosion, feral pigs, and other factors. Photographs and some turbidity data were submitted.

It is difficult to interpret the photographs submitted for sediment impairment. In addition, it is difficult to compared the turbidity information to measure impact, because turbidity measured used in samples (NTU) differ from the Basin Plan's turbidity units (JTU). There is not a conversion from NTUs to JTUs. The data cannot be compared to the water quality objective.

In addition, written comments and recommendations of the Gray Whale Ranch Investors' Timber Harvest Plan (THP) in the Majors Creek Watershed from a certified Fisheries Scientist was submitted and reviewed. The document describes the effects of sedimentation on streambank erosion and degradation on condition of creek. The biologist recommends that independent, post-harvest monitoring should be conducted to verify that the THP has reduced erosion and stream sedimentation after logging. This report is a summary, narrative report noting the biologists opinions of the watershed. No actual quantitative data are presented.

Spatial representationUnknown.Temporal representationUnknown.

Data type Both numerical and non-numerical data.

Use of standard method Unknown.

Potential Source(s) of PollutantNatural sources, erosion, unmaintained roads, log jams, stream bank erosion, feral pig activity

Region 3: Majors Creek Turbidity

Alternative Enforceable Program

RWQCB Recommendation

List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the Monitoring List because the data are inadequate to determine if applicable water quality standards are exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of unknown quality. Turbidity measurements do not correspond to turbidity units used in the basin plan. Photographs submitted are difficult to quantify.
- 2. The data exhibited insufficient spatial and temporal coverage.

An inadequate amount of the water quality data and information exceeded the water quality standard. The staff confidence that standards were exceeded is extremely low.

Region 3: Monterey Bay at Aquarium Dissolved Oxygen, temperature, total coliform, fecal coliform, enteroc +

Water Body Monterey Bay at Aquarium

Stressor/Media/Beneficial Use Dissolved Oxygen, temperature, total coliform, fecal coliform,

enterococcus, total ammonia, nitrite, nitrate, phosphate, pH/Water/All

Ocean-Bay Uses

Data quality assessment. Extent to which data quality requirements met.

Monterey Bay Aquarium QA/QC

Linkage between measurement endpoint

and benefical use or standard

Measurements related to all Ocean Beneficial Uses.

Utility of measure for judging if standards or uses are not attained

Ocean Plan Objectives are applicable Ocean uses.

Water Body-specific Information Data age =1 - 5 years old.

Data used to assess water quality Number of samples unknown, question about quality of D.O.

measurements after passing through pump and sump house.

Spatial representation Only represents one point at 50 foot depth in all of Monterey Bay.

Temporal representation D.O. data only covered one year; Only one summer (June-Aug 2000) of

poor D.O. results; Other stressors sampled for five years.

Data type Numerical Data; Dissolved Oxygen data judged to be insufficient for this

listing cycle due to questions of temporal, spatial, and Dissolved Oxygen

data quality

Use of standard method Unknown.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the list based on the inadequate spatial

and temporal coverage.

The staff confidence that standards were exceeded is extremely low.

Region 3: Moro Cojo Slough Fecal Coliform

Water Body Moro Cojo Slough

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data age = 2-3 years old (samples taken from 4/1999 to 2/2000).

Data used to assess water quality 7 samples, 1 samples exceeding WQO.

Spatial representation 1 station.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard methodCentral Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is low.

Region 3: Moro Cojo Slough Dissolved Oxygen

Water Body Moro Cojo Slough

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen WQO is linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Data age = 2-3 years old (samples taken from 3/1/1999 to 3/7/2000 over 13

sampling dates).

Data used to assess water qualityDissolved Oxygen; 14 samples with 9 exceedences.

Spatial representation 1 sampling site.

Temporal representation Monthly sampling. **Data type** Numerical data.

Use of standard methodCentral Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes

to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 3: Moss Landing Harbor Dissolved Oxygen

Water Body Moss Landing Harbor

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen WQO is linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Data age = 2-3 years old (samples taken from 3/1/1999 to 3/7/2000 over 14

sampling dates).

Data used to assess water qualityDissolved Oxygen: 15 samples with 0 exceedences.

Spatial representation 1 sampling site.

Temporal representation Monthly sampling. **Data type** Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because

applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- $3. \ Beneficial \ uses \ apply \ to \ the \ water \ body.$
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

None of the water quality measurements exceeded the water quality standard. The staff confidence that the standard was not exceeded is high.

Region 3: Mountain Charlie Gulch Sedimentation-Siltation

Water Body Mountain Charlie Gulch

Stressor/Media/Beneficial Use Sedimentation-Siltation/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Data quality assurance procedures used. Assessment made of the consistency of methods used.

Linkage between measurement endpoint and benefical use or standard

Geomorphological data linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

Sedimentation can directly affect aquatic life.

Water Body-specific Information Data age = 2 years old (1998 and 1999), Samples collected from site.

Data used to assess water quality

Riffle/Run embeddedness = 40% samples exceed at Site 16b, 35% samples exceed at Site 16c. For Fine Sediments in Riffles = 38% samples exceed at Site Z-3. For D50: 37mm (minimum for a reach) = 11mm at Site Z-3.

1998 and 1999.

Spatial representation Zig-Zag sample design, 10 samples.

Temporal representationLate spring-early summer.

Data type Numerical data.

Use of standard method Standard methods were used.

Potential Source(s) of Pollutant Residential use, timber, roads.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

Data showed impacts on fish population due to sedimentation/siltation in

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited adequate spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body- information including riffle/run embeddedness and age of the data were considered.

An adequate number of the water quality measurements exceeded the water

Region 3: Mountain Charlie Gulch Sedimentation-Siltation

quality standard. The staff confidence that standards were exceeded is moderate, uncertain on how to interpret riffle/run embeddedness.

Region 3: Newell Creek (Upper) Sedimentation-Siltation

Newell Creek (Upper) Water Body

Stressor/Media/Beneficial Use Sedimentation-Siltation/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. Data quality assurance procedures used. Assessment made of the

consistency of methods used.

Linkage between measurement endpoint

and benefical use or standard

Geomorphological data linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained Sedimentation can directly affect aquatic life.

Water Body-specific Information Data = 2 years old (1998 and 1999), Samples collected from site.

Data used to assess water quality Riffle/Run embeddedness = 40% samples exceed at Site 16b, 35% samples

exceed at Site 16c. Data showed impacts on fish population due to

sedimentation/siltation in 1998 and 1999.

Spatial representation Zig-Zag sample design, 10 samples.

Temporal representation Late spring-early summer.

Data type Numerical data.

Use of standard method Standard methods were used.

Potential Source(s) of Pollutant Improper/illegal grading of private roads and home sites, lack of vegetation

around home sites, agriculture, residential use, roads and timber.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited adequate spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body- information including riffle/run embeddedness and age of the data were considered.

Region 3: Newell Creek (Upper) Sedimentation-Siltation

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate, uncertain on how to interpret riffle/run embeddedness.

Region 3: Nipomo Creek Dissolved Oxygen

Water Body Nipomo Creek

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen is linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

Exceedances of Basin Plan water quality objective in place for the protection of aquatic life.

Water Body-specific Information Samples taken from 6/29/00 to 3/1/01 with over 18 sampling dates.

Data used to assess water qualityDissolved Oxygen: 31 samples with 4 exceedances.

Spatial representation 2 sampling sites.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the list for dissolved oxygen because the applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standards for dissolved oxygen. The staff confidence that standards were exceeded is moderate.

Region 3: Nipomo Creek Fecal Coliform

Water Body Nipomo Creek

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO are applicable to REC-1.

Water Body-specific Information Data age = 1-2 years old.

Data used to assess water quality 25 bacteria samples, 18 exceeding samples (72%) WQO.

Spatial representation 2 sites.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Urban Runoff, Agriculture, Natural Sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information considered includes age of the data.

Adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Old Salinas River Estuary Dissolved Oxygen

Water Body Old Salinas River Estuary

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen WQO is linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Data age = 2-3 years old (samples taken from 3/1/1999 to 3/7/2000 over 14

sampling dates).

Data used to assess water quality Dissolved Oxygen: 28 samples with 11 exceedences.

Spatial representation 2 sampling sites.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation Af

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that the standard was exceeded is moderate.

Region 3: Old Salinas River Estuary Fecal Coliform

Water Body Old Salinas River Estuary

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO are applicable to REC-1.

Water Body-specific Information Data age = 2-3 years old (samples taken from 4/99 to 2/00).

Data used to assess water quality 19 samples, 6 samples exceeding WQO.

Spatial representation 2 stations.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard methodCentral Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 3: Orcutt Solomon Creek Dissolved Oxygen

Water Body Orcutt Solomon Creek

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/Q.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen WQO is linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Data age = 1-2 year old (samples taken from 1/12/2000 to 2/28/2001 over

18 sampling dates).

Data used to assess water quality Dissolved Oxygen: 42 samples with 2 exceedences.

Spatial representation 4 sampling sites.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing th

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that the standard was not exceeded is high.

Region 3: Orcutt Solomon Creek Fecal Coliform

Water Body Orcutt Solomon Creek

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable REC-1.

Water Body-specific Information Data age = 1-2 years old.

Data used to assess water quality 50 bacteria samples, 31 samples exceeding (62%) WQO

Spatial representation 3 sites

Temporal representation Monthly sampling events

Data type Numerical.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Pasture lands, nonpoint sources, natural sources and Agriculture.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information considered includes age of the data.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Orcutt Solomon Creek Boron

Water Body Orcutt Solomon Creek

Stressor/Media/Beneficial Use Boron/Water/Agricultural Water Supply

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Boron WQO is linked to Agricultural Water Supply.

Utility of measure for judging if standards or uses are not attained

WQO are applicable to Agriculture Water Supply.

Water Body-specific Information Data age = 2 years old (samples taken from 4/2000 to 12/2000).

Data used to assess water quality 34 samples, 5 samples exceeding WQO.

Spatial representation 3 stations.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown; may be natural condition.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is moderate.

Region 3: Orcutt Solomon Creek **Nitrate**

Orcutt Solomon Creek

Water Body

Stressor/Media/Beneficial Use Nitrate/Water/Drinking Water

Data quality assessment. Extent to which data quality requirements met. Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint

and benefical use or standard

Nitrate WQO is linked to MUN.

Utility of measure for judging if standards or uses are not attained WQO is applicable to MUN.

Water Body-specific Information Data age = 1-2 years old (samples taken from 1/12/00 to 2/28/01).

Data used to assess water quality 45 samples, 31 samples exceeding.

3 sampling sites. Spatial representation

Monthly sampling. **Temporal representation** Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Oso Flaco Creek Fecal Coliform

Water Body Oso Flaco Creek

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data age = 1-2 years old (samples taken from 1/2000 to 1/2001; 13

sampling dates).

Data used to assess water quality 14 samples, 6 samples exceeding WQO.

Spatial representation 1 sampling site.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Oso Flaco Creek Dissolved Oxygen

Water Body Oso Flaco Creek

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen WQO is linked COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Data age = 1-2 years old (samples taken from 1/12/2000 to 3/1/2001 over

19 sampling dates).

Data used to assess water qualityDissolved Oxygen: 15 samples, 0 samples exceeding.

Spatial representation 4 sampling sites.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

None of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is high.

Region 3: Oso Flaco Creek Nitrate

Water Body Oso Flaco Creek

Stressor/Media/Beneficial Use Nitrate/Water/MUN

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Nitrate WQO is linked to MUN.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to MUN.

Water Body-specific Information Data age = 1-2 years old (samples taken from 1/12/00 to 1/31/01).

Data used to assess water quality 15 samples with 15 samples exceeding.

Spatial representation 2 sampling sites.

Temporal representation Monthly sampling. **Data type** Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

All of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Oso Flaco Lake **Nitrate**

Oso Flaco Lake Water Body

Stressor/Media/Beneficial Use Nitrate/Water/MUN

Data quality assessment. Extent to which data quality requirements met. Central Coast Ambient Monitoring Program (CCAMP) QA/QC

Linkage between measurement endpoint

and benefical use or standard

Nitrate WQO is linked to MUN.

Utility of measure for judging if standards or uses are not attained WQOs are applicable to MUN.

Water Body-specific Information Data age = 1-2 years old.

Data used to assess water quality 55 water samples, 55 samples exceeding (100%) WQO.

3 Stations. Spatial representation

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Agriculture and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including age of the data were considered.

All of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Oso Flaco Lake Dissolved Oxygen

Water Body Oso Flaco Lake

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen is linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Data age = 2 years old (samples taken from 9/7/2000 to 9/8/2000 over 2

sampling dates).

Data used to assess water qualityDissolved Oxygen; 12 samples, 0 samples exceeding.

Spatial representation 6 sampling sites.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list for dissolved oxygen because applicable water quality standard is not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard for dissolved oxygen. The staff confidence that standards were not exceeded is high.

Region 3: Pacheco Creek Fecal Coliform

Water Body Pacheco Creek

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data age = 2-3 years old (samples taken from 12/1997 to 12/1998).

Data used to assess water quality 13 samples, 3 samples exceeding WQO.

Spatial representation 1 station.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is moderate.

Region 3: Pacheco Creek Dissolved Oxygen

Water Body Pacheco Creek

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen WQO is linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Data age = 4-5 years old (samples taken from 12/18/1997 to 12/16/1998

over 15 sampling dates).

Data used to assess water quality Dissolved Oxygen: 16 samples, 3 samples exceeding.

Spatial representation 1 sampling site.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is moderate.

Region 3: Pacific Ocean (various sites) Total coliform, e. coli, enterococcus, nitrate, phosphate, sulfate, tu +

Water Body Pacific Ocean (various sites)

Stressor/Media/Beneficial Use Total coliform, E. coli, Enterococcus, nitrate, phosphate, sulfate, turbidity,

Dissolved Oxygen, temperature, conductivity, pH/water/all ocean-bay uses

Data quality assessment. Extent to which data quality requirements met.

Santa Barbara Channel Keeper, QA/QC is unknown

Linkage between measurement endpoint

and benefical use or standard

Measurements are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Unknown.

Water Body-specific Information

Unknown.

Data used to assess water quality

Data indicates suddenly elevated bacteria concentrations but standards are not exceeded. Data supplemented with data from Santa Barbara County Public Health Dept., leading to three beaches to be listed.

Temporal representation

Spatial representation

Unknown.

Unknown.

Data type

Unknown.

Use of standard method Standard methods were not used.

Potential Source(s) of Pollutant

Unknown.

Alternative Enforceable Program

RWQCB Recommendation

None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of inadequate quality.
- $2. \ \ The \ data \ exhibited \ sufficient \ spatial \ and \ temporal \ coverage \ is \ unknown.$

Uncertain whether water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is extremely low.

Region 3: Pacific Ocean at Arroyo Burro (Santa Barbara County) Total Coliform

Water Body Pacific Ocean at Arroyo Burro (Santa Barbara County)

Stressor/Media/Beneficial Use Total Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Santa Barbara County Environmental Health Dept. QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal and Total Coliform Ocean standards are linked to the REC-1.

Utility of measure for judging if standards or uses are not attained

Ocean Plan standards are applicable.

Water Body-specific Information Data age = 8/5/96-4/25/01.

Data used to assess water quality Fecal Coliform Objective (>10% samples in 60 days exceed 400 per 100

ml) exceeded for at least: 3/3-4/14/97; 1/12-3/2/98; 3/1-4/26/99. Total Coliform Objective (>20% of samples in 30 days exceed 1,000 per 100 ml) exceeded for at least: 5/5-6/2/97; 12/29/97-1/27/98; 2/2-3/2/98; 3/2-30/98; 5/4-6/1/98; 7/6-29/98; 8/3-8/31/98; 1/25-1/27/99; 4/5-5/3/99; 5/10-6/1/99;

1/31-2/28/00.

Spatial representation 1 site.

Temporal representation Weekly sampling.

Data type Numerical data.

Use of standard method Santa Barbara County Environmental Health Dept. methods.

Potential Source(s) of Pollutant Unknown

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standard for total coliform are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of water quality measurements exceeded the water quality standard for total coliform. The staff confidence that standards were exceeded is moderate.

Region 3: Pacific Ocean at Arroyo Burro Beach (Santa Barbara County) Virus

Pacific Ocean at Arroyo Burro Beach (Santa Barbara County) Water Body

Stressor/Media/Beneficial Use Virus/Water/REC-1

Data quality assessment. Extent to which data quality requirements met. Unknown

Linkage between measurement endpoint

and benefical use or standard

Virus indicators-Bacteria WQOs are linked to REC-1.

Utility of measure for judging if standards or uses are not attained These water bodies are already covered by the existing 303(d) list. Bacteria reductions recommended through TMDLs for these waters will also result in virus reductions.

Water Body-specific Information Data was not presented.

Data used to assess water quality Data was not presented.

Data was not presented. **Spatial representation**

Temporal representation Unknown

Data type Data was not presented.

Use of standard method An approved methodology was not used.

Potential Source(s) of Pollutant Data was not presented.

Alternative Enforceable Program

RWQCB Recommendation Do not list.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be included on the 303(d) list because the water body is on an existing list for bacteria and pathogens which will address viruses.

This conclusion is based on the staff findings that:

- 1. The data is considered to be inadequate quality.
- 2. Data types are unknown.
- 3. Other water body information considered is unknown.

It is unknown whether any of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is extremely low.

Region 3: Pacific Ocean at Arroyo Quemado Beach (Santa Barbara County + Fecal Coliform

Water Body Pacific Ocean at Arroyo Quemado Beach (Santa Barbara County)

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Santa Barbara County Public Health Dept. (SBCPHD) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Ocean Plan WQO is applicable to REC-1. AB 411 standards are applicable.

Water Body-specific Information Data age = 0-5 years old.

Recent data collected between April 15, 2002 and December 2, 2002.

Data used to assess water quality 250 bacteria samples, 143 samples exceeding (57%) WQO.

Recent data collected between April and December, 2002: 34 samples, 0% exceeding the AB 411 standards. A DNA study was conducted to determine the source of the previously high bacteria densities. The results of the study showed that avian sources accounted for 79% of the elevated bacteria, 52% was attributed to gulls alone. The balance of DNA was from wildlife (18%) and domestic (3%) sources. Bacteria densities on the beach have been reduced since the implementation of a bird management plan to deter gulls from using the surrounding areas.

Spatial representation 1 site.

Temporal representation Monthly sampling events.

Recent data collected between April and December, 2002: approximately

weekly.

Data type Numerical data.

Use of standard method Santa Barbara County Public Health Dept. (SBCPHD) methods.

Potential Source(s) of Pollutant Pasture Lands, Agriculture, Nonpoint and natural sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information and the RWOCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are currently not exceeded.

This conclusion is based on the staff findings that:

1. The data is considered to be of adequate.

2. The data exhibited sufficient temporal coverage.

3. Beneficial uses apply to the water body.

Region 3: Pacific Ocean at Arroyo Quemado Beach (Santa Barbara County + Fecal Coliform

- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information considered includes age of the data.

In recently collected data, none of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is high.

Region 3: Pacific Ocean at Arroyo Quemado Beach (Santa Barbara County + Total Coliform

Water Body Pacific Ocean at Arroyo Quemado Beach (Santa Barbara County)

Stressor/Media/Beneficial Use Total Coliform/Water/Ocean Plan Shellfish Harvest and REC-1

Data quality assessment. Extent to which data quality requirements met.

Santa Barbara County Public Health Dept. (SBCPHD) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Total coliform Ocean Plan standards are linked to Shellfish Harvest and REC-1.

Utility of measure for judging if standards or uses are not attained

Ocean Plan WQO are applicable to Ocean Plan Shellfish Harvest and REC-

Water Body-specific Information Data age = 1-5 years old.

Recent data collected between April 15, 2002 and December 2, 2002.

Data used to assess water quality 250 bacteria samples, 213 samples exceeding (85%) WQO.

Recent data collected between April and December, 2002: 34 samples, 0% exceeding the AB 411 standards. A DNA study was conducted to determine the source of the previously high bacteria densities. The results of the study showed that avian sources accounted for 79% of the elevated bacteria, 52% was attributed to gulls alone. The balance of DNA was from wildlife (18%) and domestic (3%) sources. Bacteria densities on the beach have been reduced since the implementation of a bird management plan to deter gulls from using the surrounding areas.

Spatial representation 1 site.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard methodSanta Barbara County Public Health Dept. (SBCPHD) methods.

Potential Source(s) of Pollutant Pasture Lands, Agriculture, Nonpoint and natural sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because

applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

1. The data is considered to be of adequate.

2. The data exhibited sufficient temporal coverage.

3. Beneficial uses apply to the water body.

4. Water quality standard used is applicable.

5. Data are numerical.

Region 3: Pacific Ocean at Arroyo Quemado Beach (Santa Barbara County + Total Coliform

- 6. Standard methods were used.
- 7. Other water body information considered includes age of the data.

In recently collected data, none of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is high.

Region 3: Pacific Ocean at Butterfly Beach (Santa Barbara County) Total Coliform

Water Body Pacific Ocean at Butterfly Beach (Santa Barbara County)

Stressor/Media/Beneficial Use Total Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Used Santa Barbara County Environmental Health Dept. Data, QA/QC.

Linkage between measurement endpoint and benefical use or standard

Total Coliform Ocean Plan standards are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Ocean Plan standards are applicable. AB 411 standards are applicable.

Water Body-specific Information Data age = 1-2 years old (1/3/00-4/23/01).

Recent data collected between April 15, 2002 and December 2, 2002.

Data used to assess water quality

Fecal Coliform Objective (>10% samples in 60 days exceed 400 per 100 ml) exceeded for: None. Total Coliform Objective (>20% of samples in 30 days exceed 1,000 per 100 ml) exceeded for at least: 2/7-3/1/00; 2/5-3/6/01.

Recent data collected between April and December, 2002: 34 samples, 0% exceeding the AB 411 standards. A DNA study was conducted to determine the source of the previously high bacteria densities. The results of the study showed that avian sources accounted for 79% of the elevated bacteria, 52% was attributed to gulls alone. The balance of DNA was from wildlife (18%) and domestic (3%) sources. Bacteria densities on the beach have been reduced since the implementation of a bird management plan to deter gulls from using the surrounding areas.

Spatial representation 1 site.

Temporal representation Weekly sampling. Recent data collected between April and December,

2002: approximately weekly sampling.

Data type Numerical data.

Use of standard methodUsed Santa Barbara County Environmental Health Dept. Data methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWOCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because

applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

1. The data is considered to be of adequate quality.

2. The data exhibited sufficient temporal coverage.

3. Beneficial uses have been apply to the water body.

Region 3: Pacific Ocean at Butterfly Beach (Santa Barbara County) Total Coliform

- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

In recent sampling, none of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is moderate.

Region 3: Pacific Ocean at Capitola Beach (Santa Cruz County) Fecal and Total Coliform

Water Body Pacific Ocean at Capitola Beach (Santa Cruz County)

Stressor/Media/Beneficial Use Fecal and Total Coliform/Water/ REC-1

Data quality assessment. Extent to which data quality requirements met.

Santa Cruz County Environmental Health Dept. QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal and Total Coliform Ocean Plan Standards are linked to REC- 1.

Utility of measure for judging if standards or uses are not attained

Ocean Plan Standards are applicable to REC-1.

Water Body-specific Information Data age = 1-3 years old (4/29/99 - 5/30/01).

Data used to assess water quality Capitola Beach (0240): Fecal Coliform Objective (>10% of samples in 60

days exceed 400 per 100 ml) exceeded for: 2/14-4/15/00. Total Coliform Objective (>20% of samples in 30 days exceed 1,000 per 100 ml) exceeded

for: 4/15-5/9/00; 1/8-2/5/01; 2/5-3/6/01.

Spatial representation 14 sites.

Temporal representation For Capitola Beach; weekly sampling (with a few weeks missing). For

remaining sites: Highly variable.

Data type Numerical data.

Use of standard methodSanta Cruz County Environmental Health Dept. methodology.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

A relatively small number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is moderate.

Region 3: Pacific Ocean at Carpinteria City Beach (Santa Barbara Coun + Fecal and Total Coliform

Water Body Pacific Ocean at Carpinteria City Beach (Santa Barbara County)

Stressor/Media/Beneficial Use Fecal and Total Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Santa Barbara County Environmental Health Dept. QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal and Total Coliform Ocean Plan standards are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Ocean Plan standards are applicable to REC-1..

Water Body-specific Information Data age = 1-4 years old (6/22/98-4/23/01).

Data used to assess water quality Fecal Coliform Objective (>10% samples in 60 days exceed 400 per 100

ml) exceeded for at least: 1/2/01-2-26-01. Total Coliform Objective (>20% of samples in 30 days exceed 1,000 per 100 ml) exceeded for at

least: 1/3-1/31/00; 2/7-3/6/00; 1/2/01-1/29/01; 2/20-3/12/01.

Spatial representation 1 site.

Temporal representation Weekly sampling.

Data type Numerical data.

Use of standard methodSanta Barbara County Environmental Health Dept. Methodology.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

A relatively small number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is moderate.

Region 3: Pacific Ocean at Carpinteria State Beach- Carpinteria Creek + Fecal and Total Coliform

Pacific Ocean at Carpinteria State Beach- Carpinteria Creek Mouth (Santa Water Body

Barbara County)

Stressor/Media/Beneficial Use Fecal and Total Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met. Santa Barbara County Environmental Health Dept. data, QA/QC

methodology.

Linkage between measurement endpoint

and benefical use or standard

Fecal and Total Coliform are linked to REC-1.

Utility of measure for judging if standards or uses are not attained Ocean Plan standards are applicable to REC-1.

Water Body-specific Information

Data age = 1 - 5 years old (3/10/97-4/23/01).

Data used to assess water quality

Fecal Coliform Objective (>10% samples in 60 days exceed 400 per 100 ml) exceeded for at least: 12/1/97-1/27/98; 7/6-8/31/98; 9/8-11/2/98; 1/4/99-2/22/99; 1/16-2/26/01. Total Coliform Objective (>20% of samples in 30 days exceed 1,000 per 100 ml) exceeded for at least: 12/1-12/29/97; 1/5-27/98; 2/9-3/9/98; 3/30-4/27/98; 5/26-6/22/98; 7/6-7/27/98; 8/3-31/98; 9/8-28/98; 11/2-11/30/98; 1/4-25/99; 3/15-4/14/99; 5/3-6/1/99; 2/17-

3/6/00; 1/2-21/01; 2/5-3/6/01.

Spatial representation 1 site.

Temporal representation Weekly sampling. Data type Numerical data.

Use of standard method Santa Barbara County Environmental Health Dept. methodology.

Unknown. Potential Source(s) of Pollutant

Alternative Enforceable Program

RWOCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

Region 3: Pacific Ocean at Carpinteria State Beach- Carpinteria Creek + Fecal and Total Coliform

Many the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 3: Pacific Ocean at City College Beach (Leadbetter Beach) Virus

Pacific Ocean at City College Beach (Leadbetter Beach) Water Body

Stressor/Media/Beneficial Use Virus/Water/REC-1

Data quality assessment. Extent to which data quality requirements met. No OAPP

Linkage between measurement endpoint

and benefical use or standard

Virus with Bacteria WQOs are linked to REC-1.

Utility of measure for judging if standards or uses are not attained These water bodies are already covered by the existing 303(d) list. Bacteria and pathogen improvements recommended through TMDLs for

these waters will also result in virus improvement.

Water Body-specific Information Data was not presented.

Data used to assess water quality Data was not presented.

Spatial representation Data was not presented.

Temporal representation Data was not presented.

Data type Data was not presented.

Use of standard method An approved method was not used.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation Do not list.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be included on the 303(d) list because the water body is on an existing list for bacteria and pathogens.

This conclusion is based on the staff findings that:

- 1. The evaluation guideline used to interpret narrative water quality standards is inadequate.
- 2. Non-standard methods were used.
- 3. Other water body information considered is unknown.

It is unknown whether any of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is extremely low.

Region 3: Pacific Ocean at Cowell Beach (Santa Cruz County) Fecal coliform

Water Body Pacific Ocean at Cowell Beach (Santa Cruz County)

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Santa Cruz County Environmental Health Dept. data, QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal and Total Coliform WQOs are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Ocean Plan standards are applicable to REC-1.

Water Body-specific Information Data age = 1-4 years old (10/2/98 - 5/30/01).

Data used to assess water quality Cowell @ Stairs (0494): Fecal Coliform Objective (Geometric mean

exceed 200 per 100 ml in 30 days) exceeded for: 8/3-8/30/99; 9/7-10/5/99; Fecal Coliform Objective (>10% of samples in 60 days exceed 400 per 100 ml) exceeded for: 4/14-6/13/00. Cowell Beach (0490): Fecal Coliform Objective (Geometric mean exceed 200 per 100 ml in 30 days) exceeded for: 8/30-9/27/99. Fecal Coliform Objective (>10% of samples in 60 days

exceed 400 per 100 ml) exceeded for: 4/17-6/13/00.

For Cowell @ Stairs and Cowell Beach; weekly sampling (with a few

weeks missing). For remaining sites: highly variable.

Spatial representation 1 site.

Temporal representationWeekly sampling. **Data type**Numerical data.

Use of standard methodSanta Cruz County Health Department.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because

applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

1. The data is considered to be of adequate quality.

2. The data exhibited sufficient spatial and temporal coverage.

3. Beneficial uses have been apply to the water body.

4. Water quality standard used is applicable.

5. Data are numerical.

6. Standard methods were used.

7. Other water body- or site-specific information including the age of the

data were considered.

Region 3: Pacific Ocean at Cowell Beach (Santa Cruz County) Fecal coliform

A relatively small number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is moderate.

Region 3: Pacific Ocean at East Beach (mouth of Mission Creek, Santa + Total Coliform

Water Body Pacific Ocean at East Beach (mouth of Mission Creek, Santa Barbara

County

Stressor/Media/Beneficial Use Total Coliform/Water/Ocean Plan Shellfish Harvest, REC-1

Data quality assessment. Extent to which data quality requirements met.

Santa Barbara County Public Health Dept. (SBCPHD) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Total Coliform linked to Shellfish Harvest and REC-1.

Utility of measure for judging if standards or uses are not attained

Assembly Bill 411Beach Posting is applicable to Shellfish Harvest and REC-1.

Water Body-specific Information Data age = 1-6 years.

Data used to assess water quality 262 bacteria samples, 181 samples exceeding (69%) WQO.

Spatial representation 1 site.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Santa Barbara County Public Health Dept. (SBCPHD) methods.

Potential Source(s) of Pollutant Urban Runoff, Non point sources, Unknown sources, Agriculture.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or

causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information considered includes age of the data.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Pacific Ocean at East Beach (mouth of Mission Creek, Santa + Fecal Coliform

Water Body Pacific Ocean at East Beach (mouth of Mission Creek, Santa Barbara

County

Stressor/Media/Beneficial Use Fecal Coliform/Water/Ocean Plan REC-1

Data quality assessment. Extent to which data quality requirements met.

Santa Barbara County Public Health Dept. (SBCPHD) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform Ocean Plan standard is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Assembly Bill Beach 411 Posting is applicable to REC-1.

Water Body-specific Information Data age = 1-6 years old.

Data used to assess water quality 262 bacteria samples, 160 samples exceeding (61%) WQO.

Spatial representation 1 site.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Santa Barbara County Public Health Dept. (SBCPHD) methods.

Potential Source(s) of Pollutant Urban Runoff, Agriculture, Natural Source, Non point sources and

unknown sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information considered includes age of the data.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Pacific Ocean at East Beach (mouth of Mission Creek, Santa + Virus

Water Body Pacific Ocean at East Beach (mouth of Mission Creek, Santa Barbara

County

Stressor/Media/Beneficial Use Virus/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

OAPP was not used.

Linkage between measurement endpoint and benefical use or standard

and benefical use of standard

Virus correlated to bacteria indicators are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

These water bodies are already covered by the existing 303(d) list. Bacteria and pathogen improvements recommended through TMDLs for these waters will also result in virus improvement.

Water Body-specific Information Unknown.

Data used to assess water quality

Unknown.

Spatial representation

Unknown.

Temporal representation

Unknown. Unknown.

Use of standard method

Data type

An approved methodology was not used.

Potential Source(s) of Pollutant

Unknown.

Alternative Enforceable Program

RWQCB Recommendation

Do not list.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be included on the 303(d) list because the water body is on an existing list for bacteria and pathogens.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of inadequate quality.
- 2. The evaluation guideline used to interpret narrative water quality standards is inadequate.
- 3. Non-standard methods were used.
- 4. Other water body information considered is unknown.

It is unknown whether any of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is extremely low.

Region 3: Pacific Ocean at East Beach (mouth of Sycamore Creek, Santa + Total Coliform

Water Body Pacific Ocean at East Beach (mouth of Sycamore Creek, Santa Barbara

County

Stressor/Media/Beneficial Use Total Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Santa Barbara County Environmental Health Dept. QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform Ocean Plan standards are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Ocean Plan standards are applicable to REC-1.

Water Body-specific Information Data age = 1-5 years old (4/7/97 - 4/23/01).

Data used to assess water quality Fecal Coliform Objective (>10% samples in 60 days exceed 400 per 100

ml) exceeded for at least: 1/5-3/2/98; 5/4-6/29/98; 3/1-4/26/99.

Total Coliform Objective (>20% of samples in 30 days exceed 1,000 per 100 ml) exceeded for at least: 12/1-29/97; 1/5-27/98; 2/2-3/2/98; 3/9-4/6/98; 4/13-5/11/98; 6/1-29/98; 8/3-31/98; 10/12-11/9/98; 3/15-4/12/99;

2/2-3/1/00; 2/5-26/01; 3/6-26/01.

Spatial representation 1 site.

Temporal representation Weekly sampling. **Data type** Numerical data.

Use of standard methodSanta Barbara County Environmental Health Dept. methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWOCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standard for total coliform are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of water quality measurements exceeded the water

Region 3: Pacific Ocean at East Beach (mouth of Sycamore Creek, Santa + Total Coliform

quality standard for total coliform. The staff confidence that standards were exceeded is moderate.

Region 3: Pacific Ocean at El Capitan Beach (Santa Barbara County) Fecal and Total Coliform

Water Body Pacific Ocean at El Capitan Beach (Santa Barbara County)

Stressor/Media/Beneficial Use Fecal and Total Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Used Santa Barbara County Environmental Health Dept. QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal and Total Coliform Ocean Plan standards are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Ocean Plan standards are applicable to REC-1.

Water Body-specific Information Data age = 1-6 years old (9/4/96 - 4/23/01).

Data used to assess water quality Fecal Coliform Objective (>10% samples in 60 days exceed 400 per 100

ml) exceeded for at least: none.

Total Coliform Objective (>20% of samples in 30 days exceed 1,000 per 100 ml) exceeded for at least: 12/1-29/97; 2/2-3/2/98; 8/17-9/14/98; 1/24-

2/22/00; 1/29-2/26/01; 3/6-26/01.

Spatial representation 1 site.

Temporal representation Weekly sampling.

Data type Numerical data.

Use of standard method Used Santa Barbara County Environmental Health methodology.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

Region 3: Pacific Ocean at Gaviota Beach (Mouth of Canada de la Gavio + Total Coliform

Water Body Pacific Ocean at Gaviota Beach (Mouth of Canada de la Gaviota Creek)

Stressor/Media/Beneficial Use Total Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Santa Barbara County Environmental Health Dept. QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform Ocean Plan standards is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Ocean Plan standards are applicable.

Water Body-specific Information

Data age = 1-5 years old (3/10/97 - 4/23/01).

Data used to assess water quality

Fecal Coliform Objective (>10% samples in 60 days exceed 400 per 100 ml) exceeded for at least: 5/5-6/30/97; 3/8-5/3/99; 1/31-3/27/00; 7/31-9/28/00.

Total Coliform Objective (>20% of samples in 30 days exceed 1,000 per 100 ml) exceeded for at least: 4/21-5/19/97; 6/2-30/97; 11/3-12/1/97; 1/5-2/2/98; 6/15/98-9/21/98; 10/12/98- 12/7/98; 1/4-27/99; 3/15-4/14/99; 6/22-7/19/99; 8/16-9/13/99; 1/31-3/1/00; 3/6/00 [>10000]; 5/22/00-8/16/00; 9/5- 10/30/00; 11/27-12/26/00; 1/2/01-4/11/01.

Spatial representation 1 site.

Temporal representation Weekly sampling. **Data type** Numerical data.

Use of standard methodSanta Barbara County Environmental Health Dept. methodology.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standard for total coliform are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

Region 3: Pacific Ocean at Gaviota Beach (Mouth of Canada de la Gavio + Total Coliform

An adequate number of water quality measurements exceeded the water quality standard for total coliform. The staff confidence that standards were exceeded is moderate.

Region 3: Pacific Ocean at Goleta Beach (Santa Barbara County) Fecal and Total Coliform

Water Body Pacific Ocean at Goleta Beach (Santa Barbara County)

Stressor/Media/Beneficial Use Fecal and Total Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Used Santa Barbara County Environmental Health Dept. QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal and Total Coliform is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Ocean Plan standards are applicable to REC-1.

Water Body-specific Information Data age = 1-5 years old (1/27/97 - 4/23/01).

Data used to assess water quality Fecal Coliform Objective (>10% samples in 60 days exceed 400 per 100

ml) exceeded for at least: 9/8-11/2/98; 2/5-4/2/01.

Total Coliform Objective (>20% of samples in 30 days exceed 1,000 per 100 ml) exceeded for at least: 2/2-3/2/98; 3/15-4/14/99; 2/7-3/8/00; 1/4-

29/01; 2/5-28/01; 3/6-8/01.

Spatial representation 1 site.

Temporal representation Weekly sampling.

Data type Numerical data.

Use of standard methodSanta Barbara County Environmental Health Dept. methodology.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

Region 3: Pacific Ocean at Guadalupe Dunes (Santa Barbara County) Total coliform

Water Body Pacific Ocean at Guadalupe Dunes (Santa Barbara County)

Stressor/Media/Beneficial Use Fecal and Total Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Santa Barbara County Environmental Health Dept. QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal and Total Coliform Ocean Plan standards are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Ocean Plan standards are applicable to REC-1.

Water Body-specific Information Data age = 1-5 years old (1/27/97-4/23/0).

Data used to assess water quality Fecal Coliform Objective (>10% samples in 60 days exceed 400 per 100

ml) exceeded for at least: none.

Total Coliform Objective (>20% of samples in 30 days exceed 1,000 per 100 ml) exceeded for at least: 6/9-7/7/97; 6/29-7/27/98; 8/2-30/99; 7/5-

31/00; 9/5-10/2/00; 2/12-3/12/01.

Spatial representation 1 site.

Temporal representation Weekly sampling. **Data type** Numerical data.

Use of standard methodSanta Barbara County Environmental Health Dept. methodology.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

Region 3: Pacific Ocean at Hammonds Beach (Santa Barbara County) Fecal Coliform

Water Body Pacific Ocean at Hammonds Beach (Santa Barbara County)

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Santa Barbara County Environmental Health Dept. QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform Ocean Plan standards are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Ocean Plan standards are applicable to REC-1.

Water Body-specific Information Data age = 1-5 years old (1/6/97 - 4/23/01).

Data used to assess water quality Fecal Coliform Objective (>10% samples in 60 days exceed 400 per 100

ml) exceeded for at least: 1/27-3/23/98; 2/22-4/19/00.

Total Coliform Objective (>20% of samples in 30 days exceed 1,000 per 100 ml) exceeded for at least: 1/6-2/3/97; 3/3-31/97; 12/1-29/97; 2/2-3/2/98; 3/9-4/6/98; 10/12-11/9/98; 1/31-2/28/00; 2/5-3/6/01.

Spatial representation 1 site.

Temporal representationWeekly sampling. **Data type**Numerical data.

Use of standard method Santa Barbara County Environmental Health Dept. methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standard for fecal coliform are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of water quality measurements exceeded the water quality standard for fecal coliform. The staff confidence that standards were exceeded is moderate.

Region 3: Pacific Ocean at Hope Ranch Beach (Santa Barbara County) Fecal Coliform

Water Body Pacific Ocean at Hope Ranch Beach (Santa Barbara County)

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Santa Barbara County Environmental Health Dept. QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform Ocean Plan standards are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Ocean Plan standards are applicable to REC-1.

Water Body-specific Information Data age = 1-5 years old (1/6/97-4/23/01).

Data used to assess water quality

Fecal Coliform Objective (>10% samples in 60 days exceed 400 per 100

ml) exceeded for at least: 2/2-3/30/98; 1/18-3/13/00.

Total Coliform Objective (>20% of samples in 30 days exceed 1,000 per 100 ml) exceeded for at least: 2/3-3/3/97; 12/1-29/97; 2/2-3/2/98; 11/30-12/28/98; 3/15-4/14/99; 10/11-11/8/99; 1/3-31/00; 1/31-2/28/00; 3/6/00;

4/17/00 [>10,000]; 10/30-11/27/00; 1/2-29/01; 2/5-26/01.

Spatial representation 1 site.

Temporal representation Weekly sampling.

Data type Numerical data.

Use of standard methodSanta Barbara County Environmental Health Dept. methodology.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standard for fecal coliform are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

Region 3: Pacific Ocean at Hope Ranch Beach (Santa Barbara County) Fecal Coliform

An adequate number of water quality measurements exceeded the water quality standard for fecal coliform. The staff confidence that standards were exceeded is moderate.

Region 3: Pacific Ocean at Jalama Beach (Santa Barbara County) Fecal Coliform

Water Body Pacific Ocean at Jalama Beach (Santa Barbara County)

Stressor/Media/Beneficial Use Fecal Coliform/Water/Ocean Plan Shellfish Harvest and REC-1

Data quality assessment. Extent to which data quality requirements met.

Santa Barbara County Public Health Dept. (SBCPHD) QA/QC

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform Ocean Plan standard is linked to Shellfish Harvest and REC-1.

Utility of measure for judging if standards or uses are not attained

Assembly Bill Beach 411 Posting is applicable to Shellfish Harvest and REC-1.

Water Body-specific Information Data age = 1-5 years old.

Data used to assess water quality 222 bacteria samples, 111 samples exceeding (50%) WQO.

Spatial representation 1 site.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard methodSanta Barbara County Public Health Dept. (SBCPHD) methods.

Potential Source(s) of Pollutant Pasture Lands, Agriculture, Nonpoint and natural sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information considered includes age of the data.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Pacific Ocean at Jalama Beach (Santa Barbara County) Total Coliform

Water Body Pacific Ocean at Jalama Beach (Santa Barbara County)

Stressor/Media/Beneficial Use Total Coliform/Water/Ocean Plan Shellfish Harvest and REC-1

Data quality assessment. Extent to which data quality requirements met.

Santa Barbara County Public Health Dept. (SBCPHD) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Total Coliform Ocean Plan WQO is linked to Shellfish Harvest and REC-1.

Utility of measure for judging if standards or uses are not attained

Ocean Plan WQO is applicable to Shellfish Harvest and REC-1.

Water Body-specific Information Data age = 1-5 years old.

Data used to assess water quality 222 bacteria samples, 118 samples exceeding (53%) WQO.

Spatial representation 1 site

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard methodSanta Barbara County Public Health Dept. (SBCPHD) methods.

Potential Source(s) of Pollutant Pasture Lands, Agriculture, Nonpoint and natural sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 6. Standard methods were used.
- 7. Other water body information considered includes age of the data.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Pacific Ocean at Leadbetter Beach (Santa Barbara County) Fecal and Total Coliform

Water Body Pacific Ocean at Leadbetter Beach (Santa Barbara County)

Stressor/Media/Beneficial Use Fecal and Total Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Santa Barbara County Environmental Health Dept. QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal and Total Coliform Ocean Plan standards are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Ocean Plan standards are applicable to REC-1.

Water Body-specific Information Data age = 1-5 years old (1/6/97 - 4/23/01).

Data used to assess water quality

Fecal Coliform Objective (>10% samples in 60 days exceed 400 per 100 ml) exceeded for at least: 12/2/96- 1/27/97; 11/3-12/29/97; 2/2-3/30/98.

Total Coliform Objective (>20% of samples in 30 days exceed 1,000 per 100 ml) exceeded for at least: 1/6-1/27/97; 11/3-12/1/97; 2/2-3/2/98; 11/1-

29/99; 2/7-3/8/00; 2/12-3/12/01.

Spatial representation 1 site.

Temporal representation Weekly sampling (with the exception of a few weeks).

Data type Numerical data.

Use of standard methodSanta Barbara County Environmental Health Dept. methodology.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

Region 3: Pacific Ocean at New Brighton Beach (Santa Cruz County) Total Coliform

Water Body Pacific Ocean at New Brighton Beach (Santa Cruz County)

Stressor/Media/Beneficial Use Total Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Santa Cruz County Environmental Health Dept. QA/QC

Linkage between measurement endpoint and benefical use or standard

Fecal and Total Coliform Ocean Plan standards are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Ocean Plan standards are applicable to REC-1.

Water Body-specific Information Data age = 1-3 years old (5/26/99 - 10/31/01).

Data used to assess water quality Fecal Coliform Objective (>10% of samples in 60 days exceed 400 per 100

ml) exceeded for: None. Total Coliform Objective (>20% of samples in

30 days exceed 1,000 per 100 ml) exceeded for: 10/2-10/31/00.

Spatial representation 1 site.

Temporal representation Weekly sampling (with a few weeks missing).

Data type Numerical data.

Use of standard methodSanta Cruz County Environmental Health Dept. methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because

applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

1. The data is considered to be of adequate quality.

- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

Region 3: Pacific Ocean at Ocean Beach (Santa Barbara County) Total and Fecal Coliform

Water Body Pacific Ocean at Ocean Beach (Santa Barbara County)

Stressor/Media/Beneficial Use Total and Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Santa Barbara County Environmental Health Dept. QA/QC.

Linkage between measurement endpoint and benefical use or standard

Total and Fecal Coliform Ocean Plan standard is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Ocean Plan standards are applicable.

Water Body-specific Information Data age = 1-5 years old (4/7/97 - 4/16/01).

Data used to assess water quality Fecal Coliform Objective (>10% samples in 60 days exceed 400 per 100

ml) exceeded for at least: 10/12-12/7/98; 3/15-5/10/99.

Total Coliform Objective (>20% of samples in 30 days exceed 1,000 per 100 ml) exceeded for at least: 1/5-2/2/98; 1/27-2/23/98; 5/4-6/1/98; 6/15-8/17/98; 10/5-11/30/98; 1/4-2/1/99; 3/8-6/28/99; 8/2-30/99; 9/7-10/4/99;

2/28/00 [>10000].

Spatial representation 1 site.

Temporal representation Weekly sampling. **Data type** Numerical data.

Use of standard methodSanta Barbara County Environmental Health Dept. methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standard are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

Region 3: Pacific Ocean at Ocean Beach (Santa Barbara County) Total and Fecal Coliform

An adequate number of water quality measurements exceeded the water quality standard for total coliform. The staff confidence that standards were exceeded is moderate.

Region 3: Pacific Ocean at Pajaro Dunes Beach (Santa Cruz County) Fecal Coliform

Water Body Pacific Ocean at Pajaro Dunes Beach (Santa Cruz County)

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Santa Cruz County Environmental Health Dept. QA/QC methodology.

Linkage between measurement endpoint and benefical use or standard

Fecal and Total Coliform are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Ocean Plan standards are applicable to REC-1.

Water Body-specific Information Data age = 1-3 years old (5/5/99 - 5/30/01).

Data used to assess water quality Fecal Coliform Objective (>10% of samples in 60 days exceed 400 per 100

ml) exceeded for: 2/23-4/26/00. Total Coliform Objective (>20% of samples in 30 days exceed 1,000 per 100 ml) exceeded for: Insufficient

data.

Spatial representation 1 site.

Temporal representation Weekly sampling (with a few weeks missing).

Data type Numerical data.

Use of standard methodSanta Cruz County Environmental Health Dept. methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWOCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because

applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

Region 3: Pacific Ocean at Point Rincon (Mouth of Rincon Creek, Santa + Fecal and Total Coliform

Pacific Ocean at Point Rincon (Mouth of Rincon Creek, Santa Barbara Water Body

County)

Stressor/Media/Beneficial Use Fecal and Total Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met. Santa Barbara County Environmental Health Dept. QA/QC methodology.

Linkage between measurement endpoint and benefical use or standard

Fecal and Total Coliform Ocean Plan standards are linked to REC-1.

Utility of measure for judging if standards or uses are not attained Ocean Plan standards are applicable to REC-1.

Water Body-specific Information Data age = 1-5 years old (5/5/97 - 4/23/01).

Data used to assess water quality Fecal Coliform Objective (>10% samples in 60 days exceed 400 per 100

ml) exceeded for at least: 6/23-8/18/97; 11/3-12/29/97; 5/18-8/17/98; 1/19-

3/15/99; 3/6-5/1/00.

Total Coliform Objective (>20% of samples in 30 days exceed 1,000 per 100 ml) exceeded for at least: 5/13/97- 8/11/97; 10/27- 11/17/97; 12/1-29/97; 1/5/98- 10/26/98 (all); 1/4-2/1/99; 3/15-4/12/99; 7/19-8/16/99; 10/18-11/15/99; 1/31-2/28/00; 3/6/00 [>10000]; 10/2-30/00; 2/12-3/8/01.

Spatial representation 1 site.

Temporal representation Weekly sampling. Data type Numerical data.

Use of standard method Santa Barbara County Environmental Health Dept. methods.

Unknown.

Potential Source(s) of Pollutant Unknown. Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

Region 3: Pacific Ocean at Point Rincon (Mouth of Rincon Creek, Santa + Fecal and Total Coliform

Region 3: Pacific Ocean at Refugio Beach (Santa Barbara County) Total Coliform

Water Body Pacific Ocean at Refugio Beach (Santa Barbara County)

Stressor/Media/Beneficial Use Total Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Santa Barbara County Environmental Health Dept. QA/QC methodology.

Linkage between measurement endpoint and benefical use or standard

Fecal and Total Coliform are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Ocean Plan standards are applicable to REC-1.

Water Body-specific Information Data age = 1-5 years old (3/10/97-4/23/01).

Data used to assess water quality Fecal Coliform Objective (>10% samples in 60 days exceed 400 per 100

ml) exceeded for at least: 10/4-11/29/99; 2/5-3/26/01.

Total Coliform Objective (>20% of samples in 30 days exceed 1,000 per 100 ml) exceeded for at least: 6/2-30/97; 12/1-29/97; 1/5/98-5/4/98; 6/1-29/98; 8/3/98-11/30/98; 3/1-29/99; 4/5-5/3/99; 6/28-8/30/99; 10/25-11/22/99; 1/31-3/1/00; 3/6/00 [>10000]; 6/5-7/5/00; 2/5-3/26/01.

Spatial representation 1 site.

Temporal representation Weekly sampling. **Data type** Numerical data.

Use of standard methodSanta Barbara County Environmental Health Dept. methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standard for total coliform are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

Region 3: Pacific Ocean at Refugio Beach (Santa Barbara County) Total Coliform

An adequate number of water quality measurements exceeded the water quality standard for total coliform. The staff confidence that standards were exceeded is moderate.

Region 3: Pacific Ocean at Rio Del Mar (Santa Cruz County) Fecal and Total Coliform

Water Body Pacific Ocean at Rio Del Mar (Santa Cruz County)

Stressor/Media/Beneficial Use Fecal and Total Coliform/Water/Ocean Plan Water Contact Standards and

REC-1

Data quality assessment. Extent to which data quality requirements met.

Santa Cruz County Environmental Health Dept. QA/QC methodology.

Linkage between measurement endpoint and benefical use or standard

Fecal and Total Coliform Ocean Plan standards are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Ocean Plan standards are applicable the REC-1.

Water Body-specific Information Data age = 1 - 4 years old (1/5/98 - 5/30/01).

Data used to assess water quality

Rio Del Mar Beach at Aptos Creek Mouth: Fecal Coliform Objective
(>10% of samples in 60 days exceed 400 per 100 ml) exceeded for: 9/7-

11/18/99; 11/18/99-1/10/00. Total Coliform Objective (>20% of samples in 30 days exceed 1,000 per 100 ml) exceeded for: 12/11/00-1/8/01;

1/29/01-2/26/01.

Spatial representation 7 sites.

Temporal representation For Rio Del Mar Beach @ Aptos Creek Mouth; weekly sampling (with a

few weeks missing). For remaining sites: Highly variable.

Data type Numerical data.

Use of standard methodSanta Cruz County Environmental Health Dept.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

Region 3: Pacific Ocean at Sands Beach - Coal Oil Point (Santa Barbar + Total Coliform

Water Body Pacific Ocean at Sands Beach - Coal Oil Point (Santa Barbara County)

Stressor/Media/Beneficial Use Total Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Santa Barbara County Environmental Health Dept. data, QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal and Total Coliform Ocean Plan standards are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Ocean Plan standards are applicable to REC-1.

Water Body-specific Information Data age = 1-8 years old (10/21/96-4/25/01).

Data used to assess water quality Fecal Coliform Objective (>10% samples in 60 days exceed 400 per 100

ml) exceeded for at least: none.

Total Coliform Objective (>20% of samples in 30 days exceed 1,000 per 100 ml) exceeded for at least: 11/18-12/16/96; 12/29/97-1/27/98; 2/2-3/2/98; 2/7-3/6/00; 2/5-3/6/01.

3/2/98; 2/7-3/6/00; 2/3-3/6

Spatial representation 1 site.

Temporal representationWeekly sampling.Data typeNumerical data.

Use of standard method Santa Barbara County Environmental Health Dept. methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

Region 3: Pacific Ocean at Twin Lakes Beach (Santa Cruz County) Fecal and Total Coliform

Water Body Pacific Ocean at Twin Lakes Beach (Santa Cruz County)

Stressor/Media/Beneficial Use Fecal and Total Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Santa Cruz County Environmental Health Dept. QA/QC

Linkage between measurement endpoint and benefical use or standard

Fecal and Total Coliform Ocean Plan standards are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Ocean Plan standards are applicable to REC-1.

Water Body-specific Information Data age = 1-3 years old (4/26/99 - 5/30/01).

Data used to assess water quality Fecal Coliform Objective (Geometric mean exceed 200 per 100 ml in 30

days) exceeded for 1/20-2/27/00 (>10% of samples in 60 days exceeded 400 per 100 ml) exceeded for: 9/7-11/18/99; 11/18/99-1/10/00. Total Coliform Objective (>20% of samples in 30 days exceed 1,000 per 100 ml)

exceeded for: 1/29-2/26/01.

Spatial representation 1 site.

Temporal representation Weekly sampling (with a few weeks missing).

Data type Numerical data.

Use of standard methodSanta Cruz County Environmental Health Dept. methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been apply to the water body.
- 4. Water quality standard used is applicable.
- 4. Water quanty standard used is
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

Region 3: Pajaro River Fecal Coliform

Water Body Pajaro River

Stressor/Media/Beneficial Use Fecal Coliform/Water/Basin Plan WQO

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data age = 3-5 years old.

Data used to assess water quality 11 bacteria samples, 10 samples exceeding (90%) WQO.

Spatial representation 1 site.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard methodCentral Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of PollutantPasture lands, Agriculture, and natural sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body considered includes age of the data.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Pennington Creek Fecal Coliform

Water Body Pennington Creek

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Morro Bay National Monitoring Program (MBNMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data age = 3-8 years old (samples taken from 6/1993 to 5/1999).

Data used to assess water quality 237 samples, 68 samples exceeding WQO.

Spatial representation 1 station.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Morro Bay National Monitoring Program (MBNMP) methods.

Potential Source(s) of Pollutant Unknown

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Quail Creek Fecal Coliform

Water Body Quail Creek

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP)

QA/QC

Linkage between measurement endpoint

and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data age = 2-3 years old.

Data used to assess water quality 6 bacteria samples, 4 samples exceeding (63%) WQO.

Spatial representation 1 sampling site.

Temporal representation Spring and winter sampling events.

Data type Numerical data.

Use of standard methodCentral Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of PollutantPasture lands, Agriculture, and natural sources.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body information considered includes age of the data.

Region 3: Quail Creek

Nitrate

Water Body Quail Creek

Stressor/Media/Beneficial Use Nitrate/Water/MUN

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Nitrate WQO is linked to MUN.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Municipal Drinking Water.

Water Body-specific Information Data age = 3 years old (samples taken from 2/1/99 to 11/30/99).

Data used to assess water quality 6 samples, 4 samples exceeding.

Spatial representation 1 sampling site.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited insufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the age of the data were considered.

An inadequate number of the water quality measurements collected to determine whether the water quality standard was exceeded. The staff confidence that standards were not exceeded is moderate.

Region 3: Quail Creek Boron

Water Body Quail Creek

Stressor/Media/Beneficial Use Boron/Water/Agricultural Water Supply

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Boron WQO is linked to Agricultural Water Supply.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Agricultural Water Supply.

Water Body-specific Information Data age = 3 years old (samples taken from 7/1999 to 11/1999).

Data used to assess water quality 7 samples, 1 sample exceeding WQO.

Spatial representation 1 station.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard methodCentral Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown; may be natural condition.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

Region 3: Quail Creek Dissolved Oxygen

Water Body Quail Creek

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen WQO is linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Data age = 2-3 years old (samples taken from 2/1/1999 to 2/10/2000; over

8 sampling dates).

Data used to assess water qualityDissolved Oxygen: 11 samples, 1 sample exceeding.

Spatial representation 2 sampling sites.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because

applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

Region 3: Salinas Reclamation Canal Fecal Coliform

Salinas Reclamation Canal Water Body

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met. Central Coast Ambient Monitoring Program (CCAMP) QA/QC

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained WQO are applicable to REC-1.

Water Body-specific Information Data age = 2-3 years old.

Data used to assess water quality 37 bacteria samples, 33 samples exceeding (89%) WQO.

3 Stations. Spatial representation

Monthly sampling events **Temporal representation**

Numerical data. Data type

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Urban runoff, Pasture Lands, Natural Sources and Agriculture.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information considered includes age of the data.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Salinas Reclamation Canal Dissolved Oxygen

Water Body Salinas Reclamation Canal

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen WQO is linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Data age = 2-3 years old (samples taken from 2/1/1999 to 2/10/2000; over

27 sampling dates).

Data used to assess water qualityDissolved Oxygen: 39 samples, 17 samples exceeding.

Spatial representation 3 sampling sites.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Salinas Reclamation Canal Nitrate

Water Body Salinas Reclamation Canal

Stressor/Media/Beneficial Use Nitrate/Water/Drinking Water

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Nitrate WQO is linked to MUN.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to MUN.

Water Body-specific Information Data age = 2-3 years old (samples taken from 2/1/1999 to 2/10/2000).

Data used to assess water quality 34 samples with 13 samples exceeding.

Spatial representation 2 sampling sites.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Salinas River (lower, estuary to near Gonzales Rd crossing, + Dissolved Oxygen

Water Body Salinas River (lower, estuary to near Gonzales Rd crossing, watersheds

309.10 and 309.20)

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen WQO is linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO is linked to Aquatic Life.

Water Body-specific Information Data age = 2-3 years old (samples taken from 2/1/1999 to 5/15/2000; over

29 sampling dates).

Data used to assess water quality Dissolved Oxygen: 64 samples with 3 samples exceeding.

Spatial representation 4 sampling sites.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because

applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

Region 3: Salinas River (lower, estuary to near Gonzales Rd crossing, + Fecal Coliform

Water Body Salinas River (lower, estuary to near Gonzales Rd crossing, watersheds

309.10 and 309.20)

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data age = 2-3 years old [samples taken from 2/99 to 2/00; 13 sampling

dates (some sampling dates have multiple samples)].

Data used to assess water quality 54 samples, 14 samples exceeding WQO.

Spatial representation 4 stations.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Salinas River (lower, estuary to near Gonzales Rd crossing, + Boron

Salinas River (lower, estuary to near Gonzales Rd crossing, watersheds Water Body

309.10 and 309.20)

Stressor/Media/Beneficial Use Boron/Water/Agricultural Water Supply

Data quality assessment. Extent to which data quality requirements met. Central Coast Ambient Monitoring Program (CCAMP)

Linkage between measurement endpoint

and benefical use or standard

Boron WQO is linked to Agricultural Water Supply.

Utility of measure for judging if standards or uses are not attained WQO is applicable to Agricultural Water Supply.

Water Body-specific Information Data age = 2-3 years old [samples taken from 7/1999 to 5/2000; 12

sampling dates (some sampling dates have multiple samples)].

13 samples, 4 samples exceeding WQO. Data used to assess water quality

4 stations. Spatial representation

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown; may be natural condition.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is moderate.

Region 3: Salinas River (middle, near Gonzales Rd crossing to conflue + Dissolved Oxygen

Water Body Salinas River (middle, near Gonzales Rd crossing to confluence with

Nacimiento River)

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen WQO is linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Data age = 2-3 years old (samples taken from 2/2/1999 to 4/24/2000; over

27 sampling dates).

Data used to assess water qualityDissolved Oxygen: 51 samples with 5 exceedences.

Spatial representation 3 sampling sites.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program Unknown.

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because

applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is high.

Region 3: Salinas River (middle, near Gonzales Rd crossing to conflue + Fecal Coliform

Water Body Salinas River (middle, near Gonzales Rd crossing to confluence with

Nacimiento River)

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data age = 2-3 years old (samples taken from 2/1999 to 4/2000; 15

sampling dates).

Data used to assess water quality 15 samples, 2 samples exceeding WQO.

Spatial representation 1 station.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is moderate.

Region 3: Salinas River (upper, confluence of Nacimiento River to San + Chloride

Water Body Salinas River (upper, confluence of Nacimiento River to Santa Margarita

Reservoir)

Stressor/Media/Beneficial Use Chloride/Water/MUN and Agriculture

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Chloride WQO is linked to Agriculture and MUN.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to MUN and Agriculture.

Water Body-specific Information Data age = 2-3 years old.

Data used to assess water quality 42 water samples, 42 samples exceeding (100%) WQO.

Spatial representation 3 Stations.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Agriculture, Urban Runoff, Pasture Lands.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including age of the data were considered.

All of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Salinas River (upper, confluence of Nacimiento River to San + Dissolved Oxygen

Water Body Salinas River (upper, confluence of Nacimiento River to Santa Margarita

Reservoir)

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Data age = 3-5 years old (samples taken from 2/2/1999 to 5/15/2000; over

16 sampling dates).

Data used to assess water quality Dissolved Oxygen: 29 samples with 4 samples exceeding.

Spatial representation 3 sampling sites.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWOCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list for dissolved oxygen because applicable water quality standard is not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard for dissolved oxygen. The staff confidence that standards were not exceeded is moderate.

Region 3: Salinas River (upper, confluence of Nacimiento River to San + Sodium

Salinas River (upper, confluence of Nacimiento River to Santa Margarita Water Body

Reservoir)

Stressor/Media/Beneficial Use Sodium/water/Agriculture and MUN

Data quality assessment. Extent to which data quality requirements met. Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint

and benefical use or standard

Sodium is linked to Agriculture and MUN.

WQO is applicable to Agriculture and MUN.

Utility of measure for judging if standards or uses are not attained

Water Body-specific Information Data age = 2-3 years old

Data used to assess water quality 32 water samples, 32 samples exceeding (100%) WQO.

3 Stations. Spatial representation

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Agriculture, Urban Runoff, Pasture Lands.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or

causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate, quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including age of the data were considered.

All of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Salinas River (upper, confluence to Nacimiento River to Mar + Fecal Coliform

Water Body Salinas River (upper, confluence to Nacimiento River to Margarita

Reservoir)

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint

and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data age = 3-5 years old (samples taken from 2/1999 to 2/2000; 7

sampling dates).

Data used to assess water quality 7 samples, 1 sample exceeding WQO.

Spatial representation 4 stations.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because it cannot be determined if applicable water quality standards are exceeded.

This conclusion is based on the staff findings that:

The data exhibited insufficient spatial and temporal coverage.

Region 3: Salinas River near Chualar Sulfate

Salinas River near Chualar Water Body

Stressor/Media/Beneficial Use Sulfate/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. USGS QA/QC.

Linkage between measurement endpoint

and benefical use or standard

Sulfate WQO is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained WQO is applicable to Aquatic Life.

Water Body-specific Information Data age = 1-5 years old (1997-2001).

Data used to assess water quality 16 samples, 3 samples exceeding WQO.

One segment of river near Chualar, CA (Represents only one location on **Spatial representation**

Salinas River.).

Temporal representation 16 samples collected over 5 years.

Data type Numerical data.

Use of standard method USGS methods were used.

Potential Source(s) of Pollutant Unknown; may be natural condition.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is moderate.

Region 3: San Antonio Creek (San Antonio Watershed) Boron

Water Body San Antonio Creek (San Antonio Watershed)

Stressor/Media/Beneficial Use Boron/Water/Agricultural Water Supply

Data quality assessment. Extent to which data quality requirements met.

USGS OA/OC

Linkage between measurement endpoint

and benefical use or standard

Boron WQO is linked to Agricultural Water Supply.

Utility of measure for judging if standards or uses are not attained

WQO is applicable Agricultural Water Supply.

Water Body-specific Information Data age = 1-4 years old (1998-2001).

Data used to assess water quality 6 samples, 4 samples exceeding WQO.

Spatial representation One station.

Temporal representation Winter, Spring, and Summer for 1998-2001 (6 sampling events).

Data type Numerical data.

Use of standard methodUSGS methods were used.

Potential Source(s) of Pollutant Unknown, may be natural condition.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

In the review of the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited insufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

A relatively low number of the water quality measurements were collected to determine whether the water quality standard was exceeded. The staff confidence that standards were not exceeded is moderate.

Region 3: San Antonio River Fecal Coliform

Water Body San Antonio River

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP)

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data age = 3-5 years old. (samples taken from 2/1999 to 5/2000; 16

sampling dates).

Data used to assess water quality 16 samples, 4 samples exceeding WQO.

Spatial representation 1 stations.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited insufficient spatial and sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is moderate.

Region 3: San Benito River Dissolved Oxygen

Water Body San Benito River

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen WQO is linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Data age = 4-5 years old (samples taken from 12/18/1997 to 12/16/1998;

over 15 sampling dates).

Data used to assess water qualityDissolved Oxygen: 15 samples, 0 samples exceeding.

Spatial representation 1 sampling site.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

None of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is high.

Region 3: San Benito River Fecal Coliform

Water Body San Benito River

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information

Data age = 4-5 years old (samples taken from 12/1997 to 12/1998; 12

sampling dates).

Data used to assess water quality 12 samples, 5 samples exceeding WQO.

Spatial representation 2 stations.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 3: San Bernardo Creek Fecal Coliform

Water Body San Bernardo Creek

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Morro Bay National Monitoring Program (MBNMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data age = 3-9 years old (samples taken from 6/1993 to 5/1999).

Data used to assess water quality 198 samples, 90 samples exceeding WQO.

Spatial representation 2 stations.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Morro Bay National Monitoring Program (MBNMP) methods.

Potential Source(s) of Pollutant Unknown

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: San Bernardo Creek Dissolved Oxygen

Water Body San Bernardo Creek

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Morro Bay National Monitoring Program (MBNMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen WQO is linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Data age = 4-9 years old (samples taken from 6/8/1993 to 5/4/1998; over

190 sampling dates).

Data used to assess water quality Dissolved Oxygen: 355 samples, 15 samples exceeding.

Spatial representation 2 sampling sites.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Morro Bay National Monitoring Program (MBNMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list for dissolved oxygen because applicable water quality standard is not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: San Bernardo Creek Dissolved Oxygen

An inadequate number of the water quality measurements exceeded the water quality standard for dissolved oxygen. The staff confidence that standards were not exceeded is high.

Region 3: San Lorenzo Creek Fecal Coliform

Water Body San Lorenzo Creek

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data age = 2-3 years old.

Data used to assess water quality 15 bacteria samples, 9 samples exceeding (60%). WQO, Station LOK 15

samples exceeding (100%).

Spatial representation 1 site.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Agriculture, Urban Runoff, Pasture Lands and Natural Sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or

causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information considered includes age of the data.

All number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 3: San Lorenzo Creek Boron

Water Body San Lorenzo Creek

Stressor/Media/Beneficial Use Boron/Water/Agricultural Water Supply

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC

Linkage between measurement endpoint and benefical use or standard

Boron WQO is linked to Agricultural Water Supply.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Agriculture Water Supply.

Water Body-specific Information Data age = 2-3 years old (samples taken from 7/1999 to 2/2000).

Data used to assess water quality 10 samples, 10 samples exceeding WQO.

Spatial representation 1 station.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard methodCentral Coast Ambient Monitoring Program (CCAMP).

Potential Source(s) of Pollutant Unknown; may be natural condition.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: San Lorenzo River Lagoon Sediment-Siltation

San Lorenzo River Lagoon Water Body

Stressor/Media/Beneficial Use Sediment-Siltation/Water/Aquatic life

Data quality assessment. Extent to which data quality requirements met. Unknown.

Linkage between measurement endpoint

and benefical use or standard

Sedimentation-Siltation is linked to the aquatic life beneficial use.

Utility of measure for judging if standards or uses are not attained N/A

Water Body-specific Information

N/A

Data used to assess water quality

The original data appears to have been based on generic information that was not truly indicative of the conditions in the San Lorenzo River Lagoon. The City of Santa Cruz's 1989 study of the lower San Lorenzo River, which includes the Lagoon Management Plan, has established that problems within the lagoon are associated with the breaching of the sand bar that becomes established between the lagoon and Monterey Bay, and are not due to the delivery of sediment from upstream sources.

Spatial representation Water Street in Santa Cruz to Monterey Bay at the Boardwalk amusement

park.

Temporal representation The study of the Lagoon was completed in 1989.

Non-numerical description of the Lagoons conditions. Data type

Use of standard method N/A

The report describes the problem being associated with breaching the sand Potential Source(s) of Pollutant

Alternative Enforceable Program N/A

RWQCB Recommendation Maintain Listing

SWRCB Staff Recommendation After reviewing the available information provided by the RWQCB and the

recommendation, SWRCB staff concludes that the water body should be removed from the section 303(d) list because there was originally no information to support listing and currently there is no information available to assess if the problem due to a pollutant (upstream sediment

sources).

Region 3: San Luis Obispo Creek below W. Marsh Street Priority Organics

Water Body San Luis Obispo Creek below W. Marsh Street

Stressor/Media/Beneficial Use Priority Organics/Tissue/Fish Consumption

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC and TSMP

Linkage between measurement endpoint and benefical use or standard

Priority Organics and PCBs MTRLs are linked to Fish Consumption.

Utility of measure for judging if standards or uses are not attained

CTR for MTRLs in freshwater is applicable to Fish Consumption.

Water Body-specific Information Change listing from Priority Organics to PCBs. The following water body

information is based on PCB data.

Data 3 - 12 years old, data collected at site (Goldfish tissue sample in 1990 and a composite sample of 20 whole fish in 1999), species present at site,

one time sample event.

Data used to assess water quality 2 composite sample, 2 samples exceeding (PCBs).

Spatial representation Two samples (A composite of 20 fish and a goldfish tissue sample).

Temporal representation One time sampling event in the winter of 1990 and one in the spring of

1999.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) and TSMP

methods.

Potential Source(s) of Pollutant Unknown Sources.

Alternative Enforceable Program

RWQCB Recommendation Change Listing from Priority Organics to PCBs. PCBs MTRLs exceedance

in fish tissue.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be maintained on the list for Priority Organics until more information is collected to support the change in listing. There is insufficient data to change the listing from Priority Organics to PCBs. The PCB information submitted to change listing was based on only two fish

tissue samples, one in 1992 and the other in 1999.

The data exhibited insufficient temporal coverage.

An inadequate amount of water quality measurements are available to

make the determination to change the pollutant designation.

Region 3: San Luisito Creek Fecal Coliform

Water Body San Luisito Creek

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Morro Bay National Monitoring Program (MBNMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data age = 3-9 years old (samples taken from 6/1993 to 5/1999).

Data used to assess water quality 207 samples, 85 samples exceeding.

Spatial representation 1 station.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Morro Bay National Monitoring Program (MBNMP) methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Santa Barbara Channel/various sites Total coliform, E. coli, Enterococcus, nitrite, phosphate, sulfate, tu +

Santa Barbara Channel/various sites Water Body

Stressor/Media/Beneficial Use Total coliform, E. coli, Enterococcus, nitrite, phosphate, sulfate, turbidity,

Dissolved Oxygen Temperature, conductivity and pH/Water/REC-1,

WILD, MAR.

Data quality assessment. Extent to which data quality requirements met. Santa Barbara County Creek Watchers (no QA Procedures).

Linkage between measurement endpoint

and benefical use or standard

Measurements are linked to Aquatic Life, REC-1 and MUN.

Utility of measure for judging if standards or uses are not attained Guidelines were not provided, so there is no applicability to Beneficial Use. Insufficient data was collected. Only 4 samples were collected. In

addition, QA procedures were not used.

Water Body-specific Information Date age = 2 years old (collected from 2001-2002)

Data used to assess water quality 250 sample events.

Spatial representation Unknown. Temporal representation Unknown. Data type Numerical.

Use of standard method Standard methods were not used.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because data was collected in absent of QA/QC, standard methods and insufficient data.

This conclusion is based on the staff findings that: 1. The data is considered to be of inadequate quality.

2. Standard methods used in sample collection is unknown.

An inadequate amount of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded extremely low.

Region 3: Santa Maria River Dissolved Oxygen

Water Body Santa Maria River

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen are linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO is linked to Aquatic Life.

Water Body-specific Information Data age = 1-2 years old (samples taken from 1/12/2000 to 2/28/2001, over

15 sampling dates).

Data used to assess water quality

Dissolved Oxygen: 32 samples with 0 samples exceeding.

Spatial representation 3 sampling sites.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard methodCentral Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

None of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is high.

Region 3: Santa Maria River Fecal Coliform

Water Body Santa Maria River

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data age = 1-2 years old.

Data used to assess water quality 33 bacteria samples, 17 samples exceeding (52%) WQO.

Spatial representation 3 stations.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Pasture Lands, Urban Runoff, Agriculture, Natural Sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate.
- 2. The data exhibited adequate spatial and sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information considered includes age of the data.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Santa Maria River Nitrate

0 . 14 . 15

Water Body Santa Maria River

Stressor/Media/Beneficial Use Nitrate/Water/MUN

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

n measurement endpoint Nitrate WQO is linked to MUN.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to MUN.

Water Body-specific InformationData age = 1 year old.

Data used to assess water quality 23 water samples, 23 samples exceeding (100%) WQO.

Spatial representation 2-3 sites.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Urban Runoff, Agriculture and Pasture Lands.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including age of the data were considered.

All of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Santa Maria River Estuary Organochlorine

Water Body Santa Maria River Estuary

Stressor/Media/Beneficial Use Organochlorine/Sediment and Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

BPTCP and TSMP

Linkage between measurement endpoint

and benefical use or standard

Sediment ERM-PEL guidelines are linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

ERM-PELs in sediment and tissue are applicable to Aquatic Life.

Water Body-specific Information Data is

Data is 3-9 years old, data measured from site/water body, one sediment sample and a composite tissue sample of 20 stickleback fish, sediment sample collected in February 1993 and tissue sample collected in August

1999.

Data used to assess water quality 1 sediment sample, 1 tissue sample exceeding.

Spatial representation Based on sediment sample and a tissue sample that is a composite of 20

fish.

Temporal representation Samples collected from Winter and Summer, however one sample was

collected in 1993 and the other in 1999.

Data type Numerical data.

Use of standard method BPTCP and TSMP methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation List due to exceedance in ERM-PELs in sediment and tissue.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the list. Data was collected from two different media taken 6 years apart with only one sample for each sediment

and tissue.

An inadequate amount of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded

is extremely low.

Region 3: Selected sites in Monterey Bay Nickel, chromium, arsenic

Selected sites in Monterey Bay Water Body

Stressor/Media/Beneficial Use Nickel, Chromium, Arsenic/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. 1998 Master Thesis by Anuraag Gill

Linkage between measurement endpoint

and benefical use or standard

Metals in sediment are linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained Metals concentrations in sediments can impact Aquatic Life.

Water Body-specific Information BPTCP protocol were used (used TEL, not PEL). Therefore insufficient

data quality to list. Toxicity data was not available.

Data used to assess water quality Unknown.

Spatial representation Unknown.

Temporal representation Unknown.

Data type Numerical data.

Use of standard method Unknown.

Potential Source(s) of Pollutant Natural geologic sources.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the list due to lack of QA/QC and standard methods used in the collection and processing of samples.

An inadequate amount of the water quality measurements exceeding the water quality standard is unknown. The staff confidence that standards

were exceeded is extremely low.

Region 3: Sisquoc River Dissolved Oxygen

Water Body Sisquoc River

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen WQO is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Data age = 1-2 years old (samples taken from 1/12/2000 to 2/28/2001; over

16 sampling dates).

Data used to assess water qualityDissolved Oxygen; 20 sample with 3 samples exceeding.

Spatial representation 2 sampling sites.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list for dissolved oxygen because applicable water quality standard is not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard for dissolved oxygen. The staff confidence that standards were not exceeded is high.

Region 3: Soda Lake Dissolved Oxygen

Water Body Soda Lake

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen WQO is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information

Data age = 2 years old (samples taken from 1/11/2000 to 5/1/2000; over 6

sampling dates).

Data used to assess water qualityDissolved Oxygen: 7 samples with 4 samples exceeding.

Spatial representation 1 sampling site.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because it can not be determined if applicable water quality standards are exceeded.

This conclusion is based on the staff findings that the data exhibited

insufficient temporal coverage.

Region 3: Tembladero Slough Fecal Coliform

Water Body Tembladero Slough

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data age = 2-3 years old.

Data used to assess water quality 8 bacterial samples, 5 samples exceeding (63%) WQO.

Spatial representation 1 site

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Pasture Lands, Urban Runoff, Agriculture, Natural Sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information considered includes age of the data.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Tembladero Slough Dissolved Oxygen

Water Body Tembladero Slough

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen WQO is linked COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Data age 2-3 years old (samples taken from 3/1/1999 to 2/7/2000, over 12

sampling dates).

Data used to assess water qualityDissolved Oxygen: 11 samples, 1 sample exceeding.

Spatial representation 1 sampling site.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard methodCentral Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because

applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is moderate.

Region 3: Tequisquita Slough Fecal Coliform

Water Body Tequisquita Slough

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data age = 4-5 years old.

Data used to assess water quality 16 bacteria samples, 10 samples exceeding (63%) WQO.

Spatial representation 1 station.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Agriculture, Nonpoint Sources and Natural Sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information considered includes age of the data.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 3: Tequisquita Slough Dissolved Oxygen

Water Body Tequisquita Slough

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen is linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Data age = 4-5 years old (samples taken from 12/18/1997 to 12/16/1998;

over 15 sampling dates).

Data used to assess water qualityDissolved Oxygen: 19 samples with 3 samples exceeding.

Spatial representation 1 sampling site.

Temporal representation Monthly sampling.

Data type Numerical data.

Use of standard methodCentral Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed one the list for dissolved oxygen because the applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standards for dissolved oxygen. The staff confidence that standards were exceeded is moderate.

Region 3: Upper Salinas River/tributaries Temperature, Nutrients, Turbidity, Dissolved Oxygen

Water Body Upper Salinas River/tributaries

Stressor/Media/Beneficial Use Temperature, Nutrients, Turbidity, Dissolved Oxygen/Sediment/Aquatic

Life

Data quality assessment. Extent to which data quality requirements met.

Data was collected by the Las Tables Resource Conservation District, however quality assurance information was not provided with the data. It

is unknown if the measurements provided are reliable.

Linkage between measurement endpoint and benefical use or standard

Measurements are linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

The measurements can be compared to the water quality objectives in the Basin Plan.

Water Body-specific Information

Data used to assess water quality

Data are summarized by month. The summaries indicate that for the most

part data do not exceed water quality standards. The summaries show that dissolved oxygen data might exceed standards for Atascadero Creek and upper Salinas River. However, no QA/QC was provided and it is unclear how the summaries were developed. Unsummarized data are not in the

record.

RWQCB CCAMP monitoring data for dissolved oxygen shows that water

quality standards are not exceeded in this water body.

Spatial representation 20 stations. 19 stations have 6 samples. Only one station has 10 samples.

The data only included general water quality descriptions including temperature, nutrients, turbidity, and dissolved oxygen. Most stations only had one or two sampling events. The station with the highest number of

samples had four sampling events.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard methodThe methods used to collect the data are presented in the submittal but he

methods are not referenced to standard methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation Do not list. There was not enough data to determine water quality

conditions. In addition, quality assurance information was not provided.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the list due to lack of QA/QC and

standard methods used in collection samples.

An inadequate number of the water quality measurements were taken to

Region 3: Upper Salinas River/tributaries Temperature, Nutrients, Turbidity, Dissolved Oxygen

determine whether the water quality standards were exceeded. The staff confidence that standards were exceeded is extremely low.

Region 3: Uvas Creek Fecal Coliform

Water Body Uvas Creek

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data age = 4-5 years old (samples taken from 12/97 to 12/98).

Data used to assess water quality 7 samples, 2 samples exceeding.

Spatial representation 4 stations.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Central Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because it cannot be determined if applicable water quality standards are exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- $2. \ \ The \ data \ exhibited \ insufficient \ spatial \ and \ temporal \ coverage.$
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is low.

Region 3: Walters Creek Fecal Coliform

Water Body Walters Creek

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Morro Bay National Monitoring Program (MBNMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data age = 3-9 years old (samples taken from 6/1993 to 5/1999).

Data used to assess water quality 141 samples, 75 exceeding WQO.

Spatial representation 1 station.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Morro Bay National Monitoring Program (MBNMP) methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

Region 3: Warden Creek Fecal Coliform

Warden Creek

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Morro Bay National Monitoring Program (MBNMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Data age = 3-6 years old (samples taken from 3/1996 to 4/1999).

Data used to assess water quality 292 samples, 110 samples exceeding.

Spatial representation 2 stations.

Temporal representation Monthly sampling events.

Data type Numerical data.

Use of standard method Morro Bay National Monitoring Program (MBNMP) methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

Region 3: Warden Creek Dissolved Oxygen

Warden Creek

Stressor/Media/Beneficial Use Dissolved Oxygen/Water/COLD and WARM

Data quality assessment. Extent to which data quality requirements met.

Central Coast Ambient Monitoring Program (CCAMP) QA/QC.

Linkage between measurement endpoint and benefical use or standard

Dissolved Oxygen is linked to COLD and WARM beneficial uses.

Utility of measure for judging if standards or uses are not attained

Exceedances of Basin Plan water quality objective in place for the protection of aquatic life.

Water Body-specific Information Samples taken from 12/14/93 to 5/18/98 with over 168 sampling dates.

Data used to assess water quality Dissolved Oxygen: 407 samples with 144 exceedances.

Spatial representation 2 sampling sites.

Temporal representation Monthly sampling. **Data type** Numerical data.

Use of standard methodCentral Coast Ambient Monitoring Program (CCAMP) methods.

Potential Source(s) of Pollutant Unknown, low dissolved oxygen can be a natural phenomenon, e.g.

induced by low-flow during dry seasons, or anthropogenically induced; e.g. removal of riparian vegetation and/or nutrient loading. Determination

will require further analysis.

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant probably contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

Region 3: Watsonville River Metals (copper, zinc, lead)

Water Body W	atsonville River
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Stressor/Media/Beneficial Use Metals (copper, zinc, lead)/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Original data of unknown quality, newly submitted data of satisfactory to high quality.

Linkage between measurement endpoint and benefical use or standard

Water column data directly comparable to numeric objectives for designated beneficial use.

Utility of measure for judging if standards or uses are not attained

Numeric data directly comparable to water quality objective.

Water Body-specific Information Original data from Sept. 1994; new data (submitted in 2002) from early

1996 through May 2002.

Data used to assess water quality

Total water column copper, lead, and zinc. Out of 30 samples collected,

none exceeded the water quality standards for these metals.

Spatial representation Similar spatial coverage/locations as original 1994 sampling.

Temporal representation Original listing on Sept. 1994 data only, new data cover multiple months

of 6 years.

Data type Numerical data.

Use of standard method Original (1994) data = unknown. New data = yes (County, Water

Authority, and RWQCB collected).

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

Region 3: Watsonville Slough Oil and Grease

Water Body Watsonville Slough

Stressor/Media/Beneficial Use Oil and Grease/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Original data of unknown quality, newly submitted data of satisfactory to high quality.

Linkage between measurement endpoint and benefical use or standard

Water column data directly comparable to narrative objectives for designated beneficial use; numeric indicator similar to numeric criteria used by state of Florida.

Utility of measure for judging if standards or uses are not attained

Numeric data as indicator value for narrative objective.

Water Body-specific Information Original data 5 samples from 1994 study; new data from February and May

2002

Data used to assess water quality 23 samples all non-detect for Oil & Grease using EPA lab Method and

acceptable detection limits.

Spatial representation 11 locations throughout slough system (10 locations used in 1994

watershed study).

Temporal representation Original listing based on 4 monthly samples from Sept. – Dec. 1994; new

data cover two months (February and May) of 2002.

Data type Numerical data.

Use of standard method Original (1994) data = unknown

New data = RWQCB collected, Method for Oil & Grease, EPA Method

1664.

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because

applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

1. The data is considered to be of adequate quality.

2. The data exhibited sufficient spatial and temporal coverage.

3. The evaluation guideline used to interpret narrative water quality standards is adequate.

4. Data are numerical.

5. Standard methods were used.

6. Other water body- or site-specific information including the effects age of the data were considered.

Region 3: Watsonville Slough Oil and Grease

All of the water quality measurements did not exceed the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 3: Zayante Creek Sedimentation-Siltation

Water Body Zayante Creek

Stressor/Media/Beneficial Use Sedimentation-Siltation/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Data quality assurance procedures used. Assessment made of the consistency of methods used.

Linkage between measurement endpoint and benefical use or standard

Geomorphological data linked to Aquatic Life protection

Utility of measure for judging if standards or uses are not attained

Sedimentation can directly affect aquatic life.

Water Body-specific Information

Data = 2 years (1998 and 1999), Samples collected from site.

Data used to assess water quality

Riffle/Run embeddedness = 45% samples exceed at Site 13a and 13b, 40% samples exceed at Site 13e, 54% samples exceed at Site Z-1, 47% samples exceed at Site Z-2, 39% samples exceed at Site Z-4, 42% samples exceed at Site Z-5, 46% samples exceed at Site Z-6. For Fine Sediments in Riffles = 40% samples exceed at Site 13b, 50% samples. Data showed impacts on fish population due to sedimentation/siltation in 1998 and 1999. exceed at Site 13c, 45% samples exceed at Site 13d, 38% samples exceed at Site Z-1, 34% samples exceed at Site Z-2. For D50: 37mm (minimum for a reach) = 12mm at Site Z-1, 14mm at Site Z-2, 24mm at Site Z-5, 30mm at Site Z-7.

Spatial representation Zig-Zag sample design, 10 samples

Temporal representationLate spring-early summer.

Data type Numerical data.

Use of standard method Standard methods were used.

Potential Source(s) of Pollutant Improper/illegal grading of private roads and home sites, lack of vegetation

around home sites, agriculture, residential use, roads and timber.

Alternative Enforceable Program

RWOCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited adequate spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.

Region 3: Zayante Creek Sedimentation-Siltation

- 6. Data are numerical.
- 7. Standard methods were used.
- $8. \ Other \ water \ body- \ information including \ riffle/run \ embeddedness \ and \ age \ of the \ data \ were \ considered.$

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate, uncertain on how to interpret riffle/run embeddedness.

Reference List for Region 3

Staff Report

California Regional Water Quality Control Board. Central Coast Region. 2001. Staff Report for the Regular Meeting of October 26, 2001. Subject: Changes to 303(d) List of Impaired Water Bodies. October 4, 2001.

Contacts

Al Haynes. San Lorenzo Valley Water District

California Department of Pesticide Regulation, 1001 I Street, P.O. Box 4015, Sacramento, CA 95812-4015

Chris Berry. City of Santa Cruz Water Department

Cindy H. Wu, Environmental Health Technician, Ocean Water Monitoring Program. Santa Barbara County Public Health Dept

Don Funk. Upper Salinas-Las Tablas Resource Conservation District/Upper Salinas Watershed Coalition

Eric Kingsley, Water Quality Specialist. Monterey Bay Aquarium

Jessica Altstatt. Santa Barbara Channel Keeper

Jill Carlson. Santa Barbara County Creek Watchers

John Hunt, Research Specialist.

Nina Gill. (Masters Thesis)

Patricia A Shiffer. United States Geological Survey

Southern California Alliance of Publicly Owned Treatment Works. 30200 Rancho Viejo Rd, Suite B, San Juan Capistrano, CA 92675

U.S. Department of the Air Force.

Regional Board Documents/Data

Al Haynes. San Lorenzo Water District

Brian Troutwein, Environmental Analyst. Environmental Defense Center

Chris Berry. City of Santa Cruz Water Department

Chris Rose. RWQCB #3

Danial Reid, Project Manager. Public Health Department, Environmental Health Services

Danial Reid, Project Manager. Santa Barbara County, Public Health Department, Environmental Health Services

David Smith. United States Environmental Protection Agency

Drew Bohan, Executive Director. Santa Barbara Channel Keeper

Heal the Ocean, September 13, 2001.

James Nelson, President Board of Directors. San Lorenzo Water District

Jodi Frediani, Executive Director. Citizens for Responsible Forest Management

Kevin Collins, Board President. Lompico Watershed Conservancy

Matt Fabry. RWQCB #3

Patricia Anderson, Associate Fishery Biologist. California Department of Fish and Game

Robert N. Tasto, Supervisor. Project Review and Water Quality Program, Marine Region, Department of Fish and Game,

Sharyn Main. South Coast Watershed Alliance

Southern California Alliance of Publicly Owned Treatment Works. 30200 Rancho Viejo Rd, Suite B, San Juan Capistrano, CA 92675

Stephen F. Mack, Water Supply Manager. City of Santa Barbara

University of Southern California. University of Southern California

Regional Water Quality Control Board LOS ANGELES REGION (4)



SECTION 303 (d) LIST PROPOSALS



Region 4: Avalon Beach-between BB restaurant and Tuna Club Bacterial Indicators

Water Body Avalon Beach-between BB restaurant and Tuna Club

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

County Health Department

Linkage between measurement endpoint and benefical use or standard

Bacterial Indicators are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Data can be compared directly to bacterial indicator water quality standards.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 42 samples, 7 samples exceeding.

Spatial representation 1 station: DHS (120) which is the same as DHS (126)99. This station

represents the beach 50 yards on either side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program None.

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information provided by the

RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes

to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the effects of age of the data were considered.

Region 4: Avalon Beach-between Pier and BB restaurant (1/3) Bacterial Indicators

Water Body Avalon Beach-between Pier and BB restaurant (1/3)

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

County Health Department.

Linkage between measurement endpoint and benefical use or standard

Bacterial Indicators are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Data can be compared directly to bacterial indicator water quality standards.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 43 samples, 14 samples exceeding

Spatial representation 1 station: DHS118. This station represents the beach 50 yards on either

side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information provided by the

RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes

to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the effects of age of the data were considered.

Region 4: Avalon Beach-between Pier and BB restaurant (2/3) Bacterial Indicators

Water Body Avalon Beach-between Pier and BB restaurant (2/3)

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

County Health Department.

Linkage between measurement endpoint and benefical use or standard

Bacterial Indicators are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Data can be compared directly to bacterial indicator water quality standards.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 43 sample, 10 samples exceeding.

Spatial representation 1 station: DHS(119). This station represents the beach 50 yards on either

side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information provided by the

RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes

to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the effects of age of the data were considered.

Region 4: Avalon Beach-between storm drain and Pier (1/3) Bacterial Indicators

Water Body Avalon Beach-between storm drain and Pier (1/3)

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

County Health Department

Linkage between measurement endpoint and benefical use or standard

Bacterial indicator densities data/beach postings and closure are linked to

REC-1.

Utility of measure for judging if standards or uses are not attained

Beach postings and closure as a result of bacterial indicator data is applicable to REC-1.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 17 samples exceeding standards out of 44 samples.

Spatial representation 1 station. This station represents the beach 50 yards on either side of the

sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information provided by the

RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes

to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the effects of age of the data were considered.

Region 4: Avalon Beach-between storm drain and Pier (2/3) Bacterial Indicators

Water Body Avalon Beach-between storm drain and Pier (2/3)

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

County Health Department

Linkage between measurement endpoint and benefical use or standard

Bacterial Indicators are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Data can be compared directly to bacterial indicator water quality standards.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 43 samples, 17 samples exceeding.

Spatial representation 1 station: DHS(116). This station represents the beach 50 yards on either

side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information provided by the

RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes

to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the effects of age of the data were considered.

Region 4: Ballona Creek Silver

Ballona Creek Water Body

Stressor/Media/Beneficial Use Silver/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. Unknown

Linkage between measurement endpoint

and benefical use or standard

EDLs are not linked to Beneficial Use protection.

Utility of measure for judging if standards or uses are not attained EDLs are not applicable to Beneficial Uses.

Water Body-specific Information N/A

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

N/A Data type

Use of standard method N/A

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation Delist because EDLs are not a valid assessment guideline.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret narrative water

quality standards.

Region 4: Ballona Creek Trash

Water Body	Ballona Creek
Stressor/Media/Beneficial Use	Trash/Water/Aquatic Life and REC-2
Data quality assessment. Extent to which data quality requirements met.	N/A
Linkage between measurement endpoint and benefical use or standard	N/A
Utility of measure for judging if standards or uses are not attained	N/A
Water Body-specific Information	N/A
Data used to assess water quality	N/A
Spatial representation	N/A
Temporal representation	N/A
Data type	N/A
Use of standard method	N/A
Potential Source(s) of Pollutant	N/A
Alternative Enforceable Program	
RWQCB Recommendation	TMDL Completed.
SWRCB Staff Recommendation	After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the TMDLs Completed List because a TMDL has been developed for the water body-pollutant combination. The TMDL has been approved by USEPA.

Region 4: Ballona Creek Arsenic

Ballona Creek Water Body

Stressor/Media/Beneficial Use Arsenic/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. Unknown

Linkage between measurement endpoint

and benefical use or standard

MTRLs are not linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained MTRLs do not exist for arsenic and are not applicable to Aquatic Life.

Water Body-specific Information Data was not presented.

Data used to assess water quality Data was not presented.

Spatial representation Data was not presented.

Temporal representation Data was not presented.

Data type Data was not presented.

Use of standard method Data was not presented.

Potential Source(s) of Pollutant Unknown

Alternative Enforceable Program

RWQCB Recommendation Delist because there is no MTRL guideline for arsenic.

SWRCB Staff Recommendation After reviewing the available data and information provided by the

RWQCB documentation for this recommendation, SWRCB staff

concluded that the water body should be removed from the section 303(d) list because MTRL guidelines cannot be used for protection of aquatic life.

Region 4: Ballona Creek Chem A

Water Body Ballona Creek

Stressor/Media/Beneficial Use Chem A/Tissue/Aquatic Life

•

Data quality assessment. Extent to which data quality requirements met.

QAPP

Linkage between measurement endpoint Chem A NAS guideline is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

and benefical use or standard

NAS guidelines are applicable to Aquatic Life.

Water Body-specific Information Unknown (not mentioned).

Data used to assess water qualityNumber of samples for old data is unknown and new data was not

presented.

Spatial representation Unknown: old data and new data was not presented.

Temporal representation Unknown: old data and new data was not presented.

Data typeUnknown: old data and new data was not presented.

Use of standard method Unknown.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation Originally recommended for delisting. Revaluation resulted in a

recommendation to maintain on the list until new or alternate comparison

value is available.

SWRCB Staff Recommendation In the review of the available data and information provided by the

RWQCB documentation for this recommendation, SWRCB staff concluded that the water body should not be removed from the section 303(d) list because the NAS guidelines are not outdated and remain a valid

assessment tools.

Region 4: Ballona Creek Copper

Water Body Ballona Creek

Stressor/Media/Beneficial Use Copper/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Unknown.

Linkage between measurement endpoint

and benefical use or standard

EDLs are not linked to Beneficial Uses.

Utility of measure for judging if standards or uses are not attained

EDLs are not applicable to Beneficial Uses.

 $\textbf{Water Body-specific Information} \qquad \qquad N/A$

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation Delist because EDLs are not a valid assessment guideline.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret narrative water

quality standards.

Region 4: Ballona Creek Lead

Water Body	Ballona Creek

Stressor/Media/Beneficial Use Lead/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Unknown

Linkage between measurement endpoint and benefical use or standard

EDLs are not linked to Beneficial Use protection.

Utility of measure for judging if standards or uses are not attained

EDLs are not applicable to Beneficial Uses.

 $\textbf{Water Body-specific Information} \qquad \qquad N/A$

Data used to assess water quality N/A

Spatial representation N/A
Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWOCB Recommendation Delist because EDLs are not a valid assessment guideline.

SWRCB Staff Recommendation In the review of the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret narrative water

quality standards.

Region 4: Ballona Creek **TBT**

Water Dady	Ballona Creek

Water Body

Stressor/Media/Beneficial Use TBT/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. Unknown

Linkage between measurement endpoint

and benefical use or standard

There is not a valid assessment guideline for TBT in sediment.

Utility of measure for judging if standards or uses are not attained There is not a valid assessment guideline for TBT in sediment.

Water Body-specific Information N/A

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

N/A Data type

Use of standard method N/A

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation Delist because there is not a valid assessment guidelines for TBT.

SWRCB Staff Recommendation After reviewing the available data and information provided by the

RWQCB documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d)

list because there is no valid assessment guideline for TBT in sediment.

Region 4: Ballona Creek Dissolved Lead

Ballona Creek Water Body

Stressor/Media/Beneficial Use Dissolved Lead/Water/Aquatic Life (warm water and freshwater, wildlife

Data quality assessment. Extent to which data quality requirements met. Los Angeles County Stormwater Program.

Linkage between measurement endpoint

and benefical use or standard

Lead CTR criterion is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained Lead CTR criterion is applicable.

Water Body-specific Information Data is 1 - 5 years old.

Data used to assess water quality 38 water samples, 5 (13.2%) above chronic criterion.

Spatial representation Samples collected spatially along the creek.

Temporal representation Fall, Winter, Spring, Summer in different years.

Data type Numerical data.

Use of standard method Los Angeles County Stormwater Program methods.

Potential Source(s) of Pollutant Nonpoint.

Alternative Enforceable Program

RWQCB Recommendation List due to 10% exceedance for dissolved lead.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects season and age of the data were considered.

Region 4: Ballona Creek **Dissolved Copper**

Ballona Creek Water Body

Stressor/Media/Beneficial Use Dissolved Copper/Water/Aquatic Life (warm water and freshwater,

wildlife habitat)

Data quality assessment. Extent to which data quality requirements met.

Los Angeles County Department of Public Works

Linkage between measurement endpoint

and benefical use or standard

Copper CTR criterion is linked to Aquatic life.

Utility of measure for judging if standards or uses are not attained Copper CTR criterion is applicable.

Water Body-specific Information

Data 1-5 years old, data measured in waterbody, environmental conditions

(winter, spring in different years).

38 water samples, 17 Sample exceeding acute criteria, 21 samples Data used to assess water quality

exceeding in chronic criteria.

Spatial representation Samples were collected spatially along the creek.

Temporal representation Fall, spring, winter, summer in different years.

Data type Numerical data.

Use of standard method LA County Stormwater Program methods.

Potential Source(s) of Pollutant Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWOCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or

causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects season, storm events and age of the data were considered.

Region 4: Ballona Creek Total Selenium

Water Body Ballona Creek

Stressor/Media/Beneficial Use Total Selenium/Water/Aquatic Life (warm water, and wildlife habitat).

Data quality assessment. Extent to which data quality requirements met.

Los Angeles County Department of Public Works.

Linkage between measurement endpoint and benefical use or standard

Selenium CTR is linked to Aquatic life.

Utility of measure for judging if standards or uses are not attained

Selenium water quality criterion from the CTR is applicable to Aquatic Life.

Water Body-specific Information Data 3-5 years old, data measured in waterbody, environmental conditions

is winter, spring in different years was considered.

Data used to assess water quality 25 water samples, 3 samples exceeding.

Spatial representation Samples were collected spatially along the creek.

Temporal representation Fall, spring, summer, winter in different years.

Data type Numerical data.

Use of standard method Los Angeles Department of Public Works methods.

Potential Source(s) of Pollutant Nonpoint sources (Stormwater).

Alternative Enforceable Program

RWOCB Recommendation List due to 10% exceedances in total selenium.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or

causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects season, storm events and age of the data were considered.

Region 4: Ballona Creek Dissolved Zinc

Water Body Ballona Creek

Stressor/Media/Beneficial Use Dissolved Zinc/Water/Aquatic Life (warm water and freshwater, wildlife

habitat

Data quality assessment. Extent to which data quality requirements met.

Los Angeles County Department of Public Works

Linkage between measurement endpoint and benefical use or standard

Zinc CTR criterion is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

CTR criterion is applicable to Aquatic Life.

Water Body-specific Information Data 1-5 years old, environmental data measured at site, samples collected

multiple seasons.

Data used to assess water quality 39 water samples, 5 water samples exceeded.

Spatial representation Data was collected spatially along the creek.

Temporal representation Fall, spring, winter, summer in different years.

Data type Numerical data.

Use of standard methodLos Angeles Department of Public Works methods.

Potential Source(s) of PollutantNonpoint sources (possible sources include urban and stormwater runoff).

Alternative Enforceable Program

RWQCB Recommendation List due to 10% exceedance for zinc.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable

water quality standards are exceeded and a pollutant contributes to or

causes the problem.

This conclusion is based on the staff findings that:

1. The data is considered to be of adequate quality.

2. The data exhibited sufficient spatial and temporal coverage.

3. Beneficial uses have been established and apply to the water body.

4. Water quality standard used is applicable.

5. Data are numerical.

6. Standard methods were used.

7. Other water body information including the effects season, and age of

the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is

moderate.

Region 4: Ballona Creek pH

Water Body Ballona Creek

Stressor/Media/Beneficial Use pH/Water/Aquatic Life (warm freshwater habitat and wildlife habitat)

Data quality assessment. Extent to which data quality requirements met.

Los Angeles County Stormwater Program

Linkage between measurement endpoint and benefical use or standard

pH WQO is linked Aquatic Life.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Data 1-5 years old, environmental data measured at site, samples collected

during multiple seasons.

Data used to assess water quality 40 water samples, 5 water samples exceeding.

Spatial representation Data was collected spatially along the creek.

Temporal representationFall and spring.Data typeNumerical data.

Use of standard method LA County Stormwater Program methods.

Potential Source(s) of PollutantNonpoint sources (possible sources include urban and stormwater runoff).

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable

water quality standards are exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including season and age of the data were

considered.

An adequate amount of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is

moderate.

Region 4: Ballona Creek Estuary Aroclor

Water Body Ballona Creek Estuary

Stressor/Media/Beneficial Use Aroclor/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

BPTCP

Linkage between measurement endpoint

and benefical use or standard

Aroclor MTRL not linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

MTRL is not applicable to Aquatic Life.

Water Body-specific Information Data presented is 3-9 years old for Lead Chlordane DDE and PAH. There

was no data presented for Aroclor. Data was measured in waterbody,

Environmental conditions (fall, winter).

Data used to assess water quality 49 sediment samples were collected. The number Aroclor samples

exceeding is unknown because data was not presented.

Spatial representation Unknown.

Temporal representation Fall/winter and different years.

Data type Numerical data.

Use of standard method BPTCP methods.

Potential Source(s) of Pollutant Historical use of pesticides, stormwater runoff/aerial deposition from urban

areas

Alternative Enforceable Program

RWQCB Recommendation Delist because it is listed for PCBs in tissue.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be listed on the 2002 section 303(d) list for Aroclor because the water body is already listed for PCBs. Aroclor is another name for polychlorinated biphenyls (PCB). This would result in a

duplicate water body listing for the same pollutant.

Region 4: Ballona Creek Wetland Arsenic

Water Body Ballona Creek Wetland

Stressor/Media/Beneficial Use Arsenic/Tissue/Fish Consumption

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint

and benefical use or standard

Arsenic MTRL is linked to Fish Consumption.

Utility of measure for judging if standards or uses are not attained

MTRL is applicable to Fish Consumption.

Water Body-specific Information Data 6 years old, Environmental data measured at site/waterbody, Species

present, one-time sample.

Data used to assess water quality 1 fish tissue sample, number exceeding samples is unknown.

Spatial representation One sample only.

Temporal representation One sample event.

Data type Numerical data.

Use of standard method TSMP methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation Delist there is not a MTRL guideline for arsenic.

SWRCB Staff Recommendation After reviewing the available data and information provided by the

RWQCB documentation for this recommendation, SWRCB staff

concluded that the water body should be removed from the section 303(d)

list because there are no MTRL guidelines for arsenic.

Region 4: Burbank Western Channel Cadmium

Water Body Burbank Western Channel

Stressor/Media/Beneficial Use Cadmium/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Quality assurance procedures followed by the City of Burbank are appropriate. All data quality procedures were met for the samples analyzed.

Linkage between measurement endpoint and benefical use or standard

Cadmium water quality criterion in water is linked to Aquatic Life beneficial use.

Utility of measure for judging if standards or uses are not attained

Cadmium CTR water quality criterion is applicable.

Water Body-specific Information Data age = 1 year, data was collected at the site, 15 samples were collected

from summer 2001 through spring 2002.

Data used to assess water quality 15 water samples, 0 samples exceeding.

Spatial representation 2 sites.

Temporal representation Samples were collected throughout the period from July 2001 - March

2002.

Data type Numerical.

Use of standard method Standard methods were used.

Potential Source(s) of Pollutant

Alternative Enforceable Program

RWQCB Recommendation Maintain Listing.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff concludes that the water body should remain on the section 303(d) list because there were an insufficient number of data points to determine if applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established for and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the effects of season and age of the data were considered.

An inadequate number of the water quality measurements were collected to determine if water quality standard are not exceeded. The staff confidence that standards were not exceeded is low.

Region 4: Calleguas Creek R9A, R9B, R10, R11, R12, R13 (was Conejo + Cadmium

Water Body Calleguas Creek R9A, R9B, R10, R11, R12, R13 (was Conejo Creek R1,

R2, R3, R4)

Stressor/Media/Beneficial Use Cadmium/Tissue/COMM BU

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint

and benefical use or standard

EDLs are not linked to Beneficial Uses.

Utility of measure for judging if standards or uses are not attained

EDLs are not applicable to Beneficial Uses.

 $\textbf{Water Body-specific Information} \qquad \qquad N/A$

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation Delist because EDLs are not a valid assessment guideline.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret narrative water

quality standards.

Region 4: Calleguas Creek R9A, R9B, R10, R11 (was Conejo Creek R1, R2 + Silver

Water Body Calleguas Creek R9A, R9B, R10, R11 (was Conejo Creek R1, R2, R3, R4)

Stressor/Media/Beneficial Use Silver/Tissue/COMM BU

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint

and benefical use or standard

EDLs are not linked to Beneficial Uses.

Utility of measure for judging if standards or uses are not attained

EDLs are not applicable to Beneficial Uses.

 $\textbf{Water Body-specific Information} \qquad \qquad N/A$

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation Delist EDLs are not a valid assessment guideline.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret narrative water

quality standards.

Region 4: Calleguas Creek R9A, R9B, R10, R11 (was Conejo Creek R1, R2 + Chromium

Water Body Calleguas Creek R9A, R9B, R10, R11 (was Conejo Creek R1, R2, R3, R4)

Stressor/Media/Beneficial Use Chromium/Tissue/COMM BU

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint

and benefical use or standard

EDLs are not linked to Beneficial Uses.

Utility of measure for judging if standards or uses are not attained

EDLs are not applicable to Beneficial Uses.

Water Body-specific Information

N/A N/A

Data used to assess water quality

N/A

Temporal representation

Spatial representation

Unknown

Data type

N/A

Use of standard method

N/A

Potential Source(s) of Pollutant

Historical use of pesticides and lubricants.

Alternative Enforceable Program

RWQCB Recommendation

Delist because EDLs are not a valid assessment guideline.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret narrative water quality standards.

Region 4: Calleguas Creek R9A, R9B, R10, R11 (was Conejo Creek R1, R2 + Nickel

Water Body Calleguas Creek R9A, R9B, R10, R11 (was Conejo Creek R1, R2, R3, R4)

Stressor/Media/Beneficial Use Nickel/Tissue/COMM

Data quality assessment. Extent to which data quality requirements met.

N/A

Linkage between measurement endpoint

and benefical use or standard

EDLs are not linked to Beneficial Uses.

Utility of measure for judging if standards or uses are not attained

EDLs are not applicable to Beneficial Uses

Water Body-specific Information

N/A N/A

Data used to assess water quality

N/A

Temporal representation

Spatial representation

Unknown

Data type

N/A

Use of standard method

N/A

Potential Source(s) of Pollutant

N/A

Alternative Enforceable Program

RWQCB Recommendation

Delist because the listing was based on EDLs which are not a valid

assessment guideline.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret narrative water quality standards.

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Region 4: Calleguas Creek R9A, R9B, R10, R11, R13 (was Conejo Reach R + Dacthal

Water Body Calleguas Creek R9A, R9B, R10, R11, R13 (was Conejo Reach R1, R2,

R3, R4)

Stressor/Media/Beneficial Use Dacthal/Tissue/COMM

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint

and benefical use or standard

EDLs are not linked to COMM.

Utility of measure for judging if standards or uses are not attained

EDLs are not applicable to COMM.

 $\textbf{Water Body-specific Information} \qquad \qquad N/A$

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation Delist because EDLs are not a valid assessment guideline.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret narrative water

quality standards.

Region 4: Calleguas Creek R9B (was part of Conejo Creek Reaches 1 and + Fecal Coliform

Water Body Calleguas Creek R9B (was part of Conejo Creek Reaches 1 and 2)

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Calleguas Creek Characterization Study

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data 3-4 years old, data measured at site, measured during all seasons for 2

years.

Data used to assess water quality 12 bacteria samples, 3 samples exceeding the 400 MPN, Geomean of 243

exceed 200 MPN.

Spatial representation 1 site.

Temporal representation All seasons during 1998-1999.

Data type Numerical data.

Use of standard methodCalleguas Creek Characterization Study methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects season, and age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 4: Calleguas Creek Reach 1 (was Mugu Lagoon on the 1998 303(d) + Unknown

Calleguas Creek Reach 1 (was Mugu Lagoon on the 1998 303(d) list) Water Body

Stressor/Media/Beneficial Use Unknown Pollutant/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. **BPTCP**

Linkage between measurement endpoint

and benefical use or standard

Sediment toxicity is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained Benthic Community Index is applicable to Aquatic Life.

Water Body-specific Information

Data used to assess water quality While there are benthic community impacts, these impacts are conditions

> of a water body. A number of pollutants are listed for Calleguas Creek Reach 1. In this specific case, these pollutants (e.g., copper, nickel, and zinc) likely cause or contribute to the benthic community impact

conditions observed.

Spatial representation No data presented.

Temporal representation No data presented. Data type No data presented.

Use of standard method No data presented.

Potential Source(s) of Pollutant Historical use of pesticides and lubricants, stormwater runoff an aerial

deposition from urban and agricultural areas.

Alternative Enforceable Program

RWQCB Recommendation List due to benthic community degradation.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

> documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because benthic community index information was not presented as well as contributing pollutant(s) were not identified. Benthic Community is a condition of a

water body and not pollutants.

Region 4: Calleguas Creek Reach 1 (was Mugu Lagoon) Dieldrin

Calleguas Creek Reach 1 (was Mugu Lagoon) Water Body

Stressor/Media/Beneficial Use Dieldrin/Tissue/Aquatic life

Data quality assessment. Extent to which data quality requirements met. **BPTCP**

Linkage between measurement endpoint

and benefical use or standard

MTRLs are not linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained MTRLs are not applicable to Aquatic Life.

Water Body-specific Information Data is 8 years old, data measured in the waterbody, species present, one

time sample event.

Data used to assess water quality 1 tissue sample, 1 sample exceeding.

Sample was collected spatially. **Spatial representation**

Temporal representation One time sample event.

Data type Numerical data.

Use of standard method BPTCP methods.

Potential Source(s) of Pollutant Historical use of pesticides, stormwater runoff, and aerial deposition from

urban and agricultural area.

Alternative Enforceable Program

RWQCB Recommendation Exclude from listing. Listing was based on obsolete data.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because it cannot be determined if data exceeds standard.

This conclusion is based on the staff findings that:

- 1. The data is considered to be inadequate.
- 2. Beneficial uses have been established and apply to the water body.
- 3. The evaluation guideline used to interpret narrative water quality standards is inadequate. MTRLs are not associated with protection of Aquatic Life beneficial uses.
- 4. Data are numerical.
- 5. Standard methods were used.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body information including the age of the data were considered.

An inadequate amount of water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is extremely low.

Region 4: Calleguas Creek Reach 1 (was Mugu Lagoon) Dacthal

Calleguas Creek Reach 1 (was Mugu Lagoon) Water Body

Stressor/Media/Beneficial Use Dacthal/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. **BPTCP**

Linkage between measurement endpoint

and benefical use or standard

Guideline for Dacthal in tissue is not available; therefore, there is not a

linkage to Aquatic Life.

Utility of measure for judging if standards or uses are not attained Guidelines for Dacthal in tissue are not available.

Water Body-specific Information N/A

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant Historical use of pesticides, stormwater runoff, and aerial deposition from

urban and agricultural area.

Alternative Enforceable Program

RWQCB Recommendation Delist because there are no approved guidelines for Dacthal in tissue.

After reviewing the available data and information and the RWQCB **SWRCB Staff Recommendation**

> documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because there are no guidelines for Dacthal and tissue samples are not linked to aquatic

life protection.

Region 4: Calleguas Creek Reach 10 (Conejo Creek (Hill Canyon)-was pa + Fecal Coliform

Water Body Calleguas Creek Reach 10 (Conejo Creek (Hill Canyon)-was part of

Conejo Creek Reach 2 and 3, and lower Conejo Creek/Arroyo Conejo

North Fork on the 1998 303(d) list)

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Calleguas Creek Characterization

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Basin Plan WQO numerical, exceedances in 200-400 MPN/ml are applicable to REC-1.

Water Body-specific Information Data 3-4 years old, data measured at site, measured during all seasons.

Data used to assess water quality 24 bacterial samples, 11 samples exceeding at 400 MPN, Geomean 431

exceed 200 MPN.

Spatial representation 2 sites.

Temporal representation Summer/fall/winter/spring.

Data type Numerical data.

Use of standard methodCalleguas Creek Characterization Study methods.

Potential Source(s) of Pollutant Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects season, and age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Calleguas Creek Reach 10 (Conejo Creek (Hill Canyon)-was pa + Nitrite as Nitrogen

Water Body Calleguas Creek Reach 10 (Conejo Creek (Hill Canyon)-was part of

Conejo Creek Reach 2 and 3, and lower Conejo Creek/Arroyo Conejo

North Fork on the 1998 303(d) list)

Stressor/Media/Beneficial Use Nitrite as Nitrogen/Water/Groundwater Recharge

Data quality assessment. Extent to which data quality requirements met.

NPDES Program and Calleguas Creek Ambient Water Quality Monitoring

Program

Linkage between measurement endpoint

and benefical use or standard

Nitrite as Nitrogen WQO is linked to Groundwater Recharge.

Utility of measure for judging if standards or uses are not attained

WQO exceedances of 1.0 ppm are applicable to Groundwater Recharge.

Water Body-specific Information

Data 2-5 years old, data measured at site, measured during all seasons.

Data used to assess water quality

42 water samples, 5 samples exceeding.

Spatial representation

Temporal representation

•

Data type

Summer/fall/winter/spring.

Numerical data.

1 site.

Use of standard method

NPDES Program and Calleguas Creek Ambient Water Quality Monitoring

Program methods.

Potential Source(s) of Pollutant

Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation

List due to a greater than 10% exceedance of nitrite as nitrogen objective as stated in Basin Plan.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other site-specific information including the effects of season, and age of the data were considered.

An adequate amount of the water quality measurements exceeded the water quality standard. Staff confidence that standards were exceeded is low.

Region 4: Calleguas Creek Reach 10 (Conejo Creek (Hill Canyon)-was pa + Organic Enrichment-Low Dissolved Oxygen

Calleguas Creek Reach 10 (Conejo Creek (Hill Canyon)-was part of Water Body

Conejo Creek Reach 2 and 3, and lower Conejo Creek/Arroyo Conejo

North Fork on the 1998 303(d) list)

Stressor/Media/Beneficial Use Organic Enrichment-Low Dissolved Oxygen/Water/Aquatic Life (warm

water habitat)

Data quality assessment. Extent to which data quality requirements met. NPDES Program and Calleguas Creek Ambient Water Quality Monitoring

Program

Linkage between measurement endpoint

and benefical use or standard

Organic Enrichment-Low Dissolved Oxygen WQO is linked to Aquatic

Life.

Utility of measure for judging if standards or uses are not attained WQO for Dissolved Oxygen between 5-7 ppm is applicable to Aquatic

Life.

Water Body-specific Information Data 2-5 years old, data measured at site, measured during all seasons.

Data used to assess water quality 81 water samples, 3 samples exceeding.

Spatial representation Unknown.

Temporal representation Summer/fall/winter/spring.

Data type Numerical data.

Use of standard method NPDES Program and Calleguas Creek Ambient Water Quality Monitoring

Program methods.

N/A Potential Source(s) of Pollutant

Alternative Enforceable Program

Delist because the Basin Plan objective for dissolved oxygen (5 - 7 ppm) **RWQCB Recommendation**

was met.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because

applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects season, storm events, and age of the data were considered.

Region 4: Calleguas Creek Reach 10 (Conejo Creek (Hill Canyon)-was pa + Organic Enrichment-Low Dissolved Oxygen

Most of the water quality measurements did not exceed the water quality standard. The staff confidence that standards were not exceeded is high.

Region 4: Calleguas Creek Reach 10 (Conejo Creek (Hill Canyon)-was pa + Chloride

Water Body Calleguas Creek Reach 10 (Conejo Creek (Hill Canyon)-was part of

Conejo Creek Reach 2 and 3, and lower Conejo Creek/Arroyo Conejo

North Fork on the 1998 303(d) list)

Stressor/Media/Beneficial Use Chloride/Water/Agriculture

Data quality assessment. Extent to which data quality requirements met.

NPDES report and Calleguas Creek Characterization Study

Linkage between measurement endpoint and benefical use or standard

Chloride WQO is linked to Agriculture.

Utility of measure for judging if standards or uses are not attained

WQO are applicable to Agriculture.

Water Body-specific Information Data 2-5 years old, data measured at site, measured during all seasons.

Data used to assess water quality 97 water samples, 16 samples exceeding.

Spatial representation 1 site.

Temporal representation Summer/fall/winter/spring.

Data type Numerical data.

Use of standard method NPDES and Calleguas Creek Characterization Study methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects season, storm events, and age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Calleguas Creek Reach 11 (Arroyo Santa Rosa-was part of Con + Organic Enrichment-Low Dissolved Oxygen

Water Body Calleguas Creek Reach 11 (Arroyo Santa Rosa-was part of Conejo Creek

Reach 3 on the 1998 303(d) list)

Stressor/Media/Beneficial Use Organic Enrichment-Low Dissolved Oxygen/Water/Aquatic Life (warm

water habitat)

Data quality assessment. Extent to which data quality requirements met.

Calleguas Creek Characterization Study

Linkage between measurement endpoint

and benefical use or standard

Organic Enrichment-Low Dissolved Oxygen WQO is linked to Aquatic

Life.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information

Data 2-5 years old, data measured at site, measured during all seasons.

Data used to assess water quality

41 water samples, 0 samples exceeding.

Spatial representation

- · ·

Temporal representation

Summer/fall/winter/spring.

Data type

Numerical data.

Use of standard method

Calleguas Creek Characterization Study methods.

Potential Source(s) of Pollutant

N/A

1 site.

Alternative Enforceable Program

RWQCB Recommendation

Delist because the Basin Plan objective for dissolved oxygen was met.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects season, and age of the data were considered.

None of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is high.

Region 4: Calleguas Creek Reach 11 (Arroyo Santa Rosa-was part of Con + Fecal Coliform

Water Body Calleguas Creek Reach 11 (Arroyo Santa Rosa-was part of Conejo Creek

Reach 3 on the 1998 303(d) list)

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Calleguas Creek Characterization Study

Linkage between measurement endpoint and benefical use or standard

point Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO exceeding 200-400 MPN/ml is applicable.

Water Body-specific Information

Data 3-4 years old, data measured at site, measured during all seasons.

Data used to assess water quality 12 water samples, Geomean of 393 exceeds 200 MPN, 6 samples

exceeding the 400 MPN.

Spatial representation

Temporal representation Summer/fall/winter/spring.

Data type Numerical data.

Use of standard methodCalleguas Creek Characterization Study methods.

1 site.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- Data are numerical.
- 7. Standard methods were used.
- 8. Other water body information including the effects season, and age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Calleguas Creek Reach 12 (was Conejo Creek/Arroyo Conejo No + Organic Enrichment-Low Dissolved Oxygen

Calleguas Creek Reach 12 (was Conejo Creek/Arroyo Conejo North Fork Water Body

on the 1998 303(d) list)

Stressor/Media/Beneficial Use Organic Enrichment-Low Dissolved Oxygen/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

NPDES monitoring.

Linkage between measurement endpoint

and benefical use or standard

Organic Enrichment-Low Dissolved Oxygen WQO is linked to Aquatic

Life.

Utility of measure for judging if standards or uses are not attained

WQO are applicable to Aquatic Life.

Water Body-specific Information Date = 2 - 5 years old, collected at site(s) during all seasons for 3 years.

83 water samples, 5 (6%) samples exceeding. Data used to assess water quality

One site. Spatial representation

Temporal representation Collected from 7/1997 - 12/2000, throughout the 3 years

Data type Numerical data.

Use of standard method NPDES and TMDL methods.

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation Delist because there was not enough samples exceeding the Dissolved

Oxygen WQO.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWOCB documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of season and age of the data were considered.

An adequate number of the water quality measurements did not exceeded the water quality standard. The staff confidence that standards were not exceeded is high.

Region 4: Calleguas Creek Reach 13 - Conejo Creek (South Fork)-was Co + Chloride

Water Body Calleguas Creek Reach 13 - Conejo Creek (South Fork)-was Conejo Creek

Reach 4 and part of Reach 3 on the 1998 303(d) list)

Stressor/Media/Beneficial Use Chloride/Water/ Agriculture

Data quality assessment. Extent to which data quality requirements met.

NPDES Reports.

Linkage between measurement endpoint

and benefical use or standard

Chloride WQO is linked to Agriculture.

Utility of measure for judging if standards or uses are not attained

WQO exceedances of 150 mg/L is applicable.

Water Body-specific Information Data 3-4 years old, data measured at site, measured during all seasons.

Data used to assess water quality 19 water samples, 17 samples exceeding.

Spatial representation 2 sites.

Temporal representation Summer/fall/winter/spring.

Data type Numerical data.

Use of standard method NPDES methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List due to exceedances in the WQO for Chloride.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects season, and age of the data were considered.

Most of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Calleguas Creek Reach 13 - Conejo Creek (South Fork)-was Co + Organic Enrichment-Low Dissolved Oxygen

Water Body Calleguas Creek Reach 13 - Conejo Creek (South Fork)-was Conejo Creek

Reach 4 and part of Reach 3 on the 1998 303(d) list)

Stressor/Media/Beneficial Use Organic Enrichment-Low Dissolved Oxygen/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

NPDES.

Linkage between measurement endpoint and benefical use or standard

Organic Enrichment-Low Dissolved Oxygen WQO is linked to Aquatic

Life

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Data = 2 - 5 years old, collected at site, sampled all seasons.

Data used to assess water quality 83 water samples, 5 samples exceeding.

Spatial representation Unknown.

Temporal representation Samples were collected 7/1997 -1 2/2000.

Data type Numerical data.

Use of standard method NPDES and TMDL methods.

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation Delist because there are not enough samples exceeding the water quality

objective for dissolved oxygen.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard were used.
- 7. Other water body information including the effects of season and age of the data were considered.

An adequate number of the water quality measurements did not exceeded the water quality standard. The staff confidence that standards were not exceeded is high.

Region 4: Calleguas Creek Reach 2 (area affected is at the mouth) Fecal Coliform

Water Body Calleguas Creek Reach 2 (area affected is at the mouth)

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Calleguas Creek Characterization Study.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Numerical WQO is applicable to REC-1.

Water Body-specific InformationData 3-4 years old, data measured at site, measured during all seasons.

Data used to assess water quality 34 bacterial samples, Geomean of 934 exceeds 200 MPN standard, 24

samples exceeding at 400 MPN.

Spatial representation 3 sites.

Temporal representation Summer/fall/winter/spring.

Data type Numerical data.

Use of standard methodCalleguas Creek Characterization Study methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects season, storm events, and age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Calleguas Creek Reach 2 (estuary to Potrero Road-was Calleg + Dissolved Copper

Water Body Calleguas Creek Reach 2 (estuary to Potrero Road-was Calleguas Creek

Reaches 1 and 2 on 1998 303(d) list)

Stressor/Media/Beneficial Use Dissolved Copper/Water Column/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Calleguas Creek Characterization Study.

Linkage between measurement endpoint and benefical use or standard

Dissolved copper CTR (saltwater) criterion is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

Dissolved Copper CTRs acute and chronic criteria is applicable to Aquatic Life.

ial us of uses are not attained

Data 3-4 years old, data measured at site, measured during all seasons.

Data used to assess water quality

Water Body-specific Information

11 water samples, 7 samples exceeding for 4 days and 3 sample exceeding

for 1 hour salt water standard.

Spatial representation

3 sites.

Temporal representation

Summer/fall/winter of 1998 and 1999.

Data type

Numerical data.

Use of standard method

Calleguas Creek Characterization Study methods.

Potential Source(s) of Pollutant

Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation

List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded for acute and chronic salt water CTR criteria and the pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects season, and age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Calleguas Creek Reach 2 (estuary to Potrero Road-was Calleg + DDT

Water Body Calleguas Creek Reach 2 (estuary to Potrero Road-was Calleguas Creek

Reaches 1 and 2 on 1998 303(d) list)

Stressor/Media/Beneficial Use DDT/Water Column/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Calleguas Creek Characterization Study

Linkage between measurement endpoint and benefical use or standard

DDT chronic water quality criterion in the CTR is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

Chronic water quality criterion for DDT in the water column is applicable to Aquatic Life.

Water Body-specific Information Data 3-4 years old, data measured at site, measured during all seasons.

Data used to assess water quality 11 water samples, 7 samples exceeding.

Spatial representation 3 sites.

Temporal representation Summer/fall/winter/spring in 1998 and 1999.

Data type Numerical data.

Use of standard methodCalleguas Creek Characterization Study methods.

Potential Source(s) of Pollutant Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of season and age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 4: Calleguas Creek Reach 2 (estuary to Potrero Road-was Calleg + Chem A

Calleguas Creek Reach 2 (estuary to Potrero Road-was Calleguas Creek Water Body

Reaches 1 and 2 on 1998 303(d) list)

Stressor/Media/Beneficial Use Chem A/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. **TSMP**

Linkage between measurement endpoint

and benefical use or standard

Chemical Tissue concentration based on NAS guidelines are linked to

Aquatic Life.

Utility of measure for judging if standards or uses are not attained NAS guidelines are applicable to Aquatic Life.

Water Body-specific Information Data for Chem Group A was not presented.

Data used to assess water quality Data for Chem Group A was not presented.

Data for Chem Group A was not presented. Spatial representation

Temporal representation Unknown.

Data type Numerical data.

Use of standard method Data for Chem Group A was not presented.

Potential Source(s) of Pollutant Historical use of pesticides and lubricants.

Alternative Enforceable Program

RWQCB Recommendation Originally recommended for delisting. Reevaluation resulted in a

recommendation to maintain on the list because NAS guidelines are still useful for aquatic life protection. This guideline should continue to be

used until an alternative value is available.

After reviewing the available data and information provided by the **SWRCB Staff Recommendation**

RWQCB documentation for this recommendation, SWRCB staff concluded that the water body should not be removed from the section 303(d) list because the NAS guidelines are not outdated and remain a valid

assessment tools.

Region 4: Calleguas Creek Reach 2 (estuary to Potrero Road-was Calleg + Toxicity

Water Body Calleguas Creek Reach 2 (estuary to Potrero Road-was Calleguas Creek

Reaches 1 and 2 on 1998 303(d) list)

Stressor/Media/Beneficial Use Toxicity/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Calleguas Creek Characterization Study

Linkage between measurement endpoint and benefical use or standard

Water Column Toxicity is linked to Aquatic Life. There was no toxicity recorded and a stressor was not identified.

Utility of measure for judging if standards or uses are not attained

Water Column Toxicity is applicable to Aquatic Life. There was no toxicity recorded and a stressor was not identified.

Water Body-specific Information Data 3-4 years old, data measured at site, during summer of 1998 and 1999.

Data used to assess water quality 6 water samples, 0 mortality for toxicity test and 0 reproductive effects

and/or growth inhibition.

Spatial representation One site.

Temporal representation Summer 1998 and 1999.

Data type Numerical data.

Use of standard methodCalleguas Creek Characterization Study methods.

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation Delist because results from testing one site downstream of Camrosa

WWTP for chronic water column toxicity using fathead minnow and

Ceriodaphnia exhibited no toxicity.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because

applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 7. Standard toxicity methods were used.
- 8. Other water body information including season and the age of the data were considered.

None of the water quality measurements exceeded the narrative objective. The staff confidence that the water quality objective were not exceeded is high.

Region 4: Calleguas Creek Reach 3 (Potrero Road upstream to confluenc + Chloride

Calleguas Creek Reach 3 (Potrero Road upstream to confluence with Water Body

Conejo Creek on the 1998 303(d) list)

Stressor/Media/Beneficial Use Chloride/Water/Ground Water Recharge and Aquatic Life

Data quality assessment. Extent to which data quality requirements met. N/A

Linkage between measurement endpoint

and benefical use or standard

N/A

Utility of measure for judging if

standards or uses are not attained

N/A

Water Body-specific Information

USEPA has approved a TMDL for this water body-pollutant combination.

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the TMDLs Completed List because a plan to implement the TMDL has not been adopted or approved even

though the TMDL has been approved by USEPA.

Region 4: Calleguas Creek Reach 4 (was Revolon Slough Main Branch: M + Nitrate as Nitrate

Water Body Calleguas Creek Reach 4 (was Revolon Slough Main Branch: Mugu

Lagoon to Central Avenue on the 1998 303(d) list)

Stressor/Media/Beneficial Use Nitrate as Nitrate/Water/Groundwater Recharge

Data quality assessment. Extent to which data quality requirements met.

Calleguas Creek Characterization Study

Linkage between measurement endpoint and benefical use or standard

Nitrate as Nitrate WQO is linked to Groundwater Recharge.

Utility of measure for judging if standards or uses are not attained

WQO is applicable Groundwater Recharge.

Water Body-specific Information

Data 3-4 years old, data measured at site, measured during all seasons.

Data used to assess water quality 43 water samples, 38 samples exceeding.

Spatial representation 3 sites.

Temporal representation Summer/fall/winter/spring.

Data type Numerical data.

Use of standard methodCalleguas Creek Characterization Study methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects season and age of the data were considered.

Most of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Calleguas Creek Reach 4 (was Revolon Slough Main Branch: M + Dacthal

Water Body Calleguas Creek Reach 4 (was Revolon Slough Main Branch: Mugu

Lagoon to Central Avenue on the 1998 303(d) list)

Stressor/Media/Beneficial Use Dacthal/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint

and benefical use or standard

Dacthal measurements in sediment are linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

Approved Dacthal sediment guidelines do not exist.

 $\textbf{Water Body-specific Information} \qquad \qquad N/A$

Data used to assess water quality N/A

Spatial representation N/A

Temporal representationNo data presented.Data typeNo data presented.

Use of standard method N/A

Potential Source(s) of Pollutant Historical use of pesticides and lubricants.

Alternative Enforceable Program

RWQCB Recommendation Delist because there are no valid approved guidelines for Dacthal.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because approved valid guideline for Dacthal in sediment do not exist.

Region 4: Calleguas Creek Reach 4 (was Revolon Slough Main Branch: M+ Chloride

Calleguas Creek Reach 4 (was Revolon Slough Main Branch: Mugu Water Body

Lagoon to Central Avenue on the 1998 303(d) list)

Stressor/Media/Beneficial Use Chloride/Water/Agriculture and Groundwater Recharge.

Data quality assessment. Extent to which data quality requirements met. Calleguas Creek Characterization Study

Linkage between measurement endpoint

and benefical use or standard

There are no water body specific objective applicable for this constituent.

Utility of measure for judging if standards or uses are not attained There are no water body specific objective applicable for this constituent.

Water Body-specific Information

Data 3-5 years old, data measured at site, measured during all seasons.

Data used to assess water quality

15 water samples, however there is no water body specific objective

applicable for this constituent to assess exceedances.

Spatial representation

Temporal representation Summer/fall/winter/spring of 1997-1999.

Data type Numerical data.

Use of standard method Calleguas Creek Characterization Study methods.

3 sites.

Potential Source(s) of Pollutant Nonpoint sources.

Alternative Enforceable Program Calleguas Creek Chloride TMDL 2001.

RWQCB Recommendation Do not list. There is no water body-specific objective available for this

constituent.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

> documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because there is

not a water body specific objective for chloride in the Basin Plan.

Region 4: Calleguas Creek Reach 4 (was Revolon Slough Main Branch: M + Chem A

Water Body Calleguas Creek Reach 4 (was Revolon Slough Main Branch: Mugu

Lagoon to Central Avenue on the 1998 303(d) list)

Stressor/Media/Beneficial Use Chem A/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint

and benefical use or standard

Chem A NAS guidelines in tissue are Aquatic Life.

Utility of measure for judging if standards or uses are not attained

Chem A NAS guidelines are applicable to Aquatic Life.

 $\textbf{Water Body-specific Information} \qquad \qquad N/A$

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant Historical use of pesticides and lubricants.

Alternative Enforceable Program

RWQCB Recommendation Originally recommended for delisting because listing was based on NAS

outdated guidelines. Reevaluation resulted in a recommendation to maintain on list because Chem A group are not outdated and are still valid

guidelines set by NAS to protect aquatic life.

SWRCB Staff Recommendation After reviewing the available data and information provided by the

RWQCB documentation for this recommendation, SWRCB staff concluded that the water body should not be removed from the section 303(d) list because the NAS guidelines are not outdated and remain a valid assessment tools. This guideline should continue to be used until an

alternative value is available.

Region 4: Calleguas Creek Reach 4 (was Revolon Slough Main Branch: M + TDS

Water Body Calleguas Creek Reach 4 (was Revolon Slough Main Branch: Mugu

Lagoon to Central Avenue on the 1998 303(d) list)

Stressor/Media/Beneficial Use TDS/Water/There is no water body specific WQO.

Data quality assessment. Extent to which data quality requirements met.

Calleguas Creek Characterization Study

Linkage between measurement endpoint and benefical use or standard

There is no water body specific objective available for this constituent.

Utility of measure for judging if standards or uses are not attained

There is no water body specific objective available for this constituent.

Water Body-specific Information Data 3-5 years old, data measured at site, measured during all seasons.

Data used to assess water quality 15 water sample, however there is no water body specific objective

available for this constituent to assess exceedances.

Spatial representation 3 sites.

Temporal representation Summer/fall/winter/spring.

Data type Numerical data.

Use of standard methodCalleguas Creek Characterization Study methods.

Potential Source(s) of Pollutant Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation Do not list. There is no water body-specific objective available for this

constituent.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because there is

not a water body specific objective for TDS in the Basin Plan.

Region 4: Calleguas Creek Reach 4 (was Revolon Slough Main Branch: M + Sulfate

Water Body Calleguas Creek Reach 4 (was Revolon Slough Main Branch: Mugu

Lagoon to Central Avenue on the 1998 303(d) list)

Stressor/Media/Beneficial Use Sulfate/Water/There is no water body specific WQO.

Data quality assessment. Extent to which data quality requirements met.

Calleguas Creek Characterization Study

Linkage between measurement endpoint and benefical use or standard

There is no water body specific objective available for this constituent.

Utility of measure for judging if standards or uses are not attained

There is no water body specific objective available for this constituent.

Water Body-specific Information

Data 3-5 years old, data measured at site, measured during all seasons.

Data used to assess water quality 15 water samples, however there is no water body specific quality

objective for this constituent to assess exceedances.

Spatial representation 3 sites.

Temporal representation Samples were collected from summer 98 through summer 99.

Data type Numerical data.

Use of standard methodCalleguas Creek Characterization Study methods.

Potential Source(s) of Pollutant Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation Do not list. There is no water body-specific objective available for this

constituent.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because there is

not a water body specific objective for chloride in the Basin Plan.

Region 4: Calleguas Creek Reach 4 (was Revolon Slough Main Branch: M + Fecal Coliform

Water Body Calleguas Creek Reach 4 (was Revolon Slough Main Branch: Mugu

Lagoon to Central Avenue on the 1998 303(d) list)

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Calleguas Creek Characterization Study

Linkage between measurement endpoint

and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Numerical WQO is applicable to REC-1.

Water Body-specific Information Data

Data 3-4 years old, data measured at site, measured during all seasons.

Data used to assess water quality 12 bacteria samples, 6 samples exceeding 400 MPN.

Spatial representation 1 site.

Temporal representation Summer/fall/winter/spring.

Data type Numerical data.

Use of standard methodCalleguas Creek Characterization Study methods.

Potential Source(s) of Pollutant Point and nonpoint.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects season and age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Calleguas Creek Reach 4 (was Revolon Slough Main Branch: M + Boron

Water Body Calleguas Creek Reach 4 (was Revolon Slough Main Branch: Mugu

Lagoon to Central Avenue on the 1998 303(d) list)

Stressor/Media/Beneficial Use Boron/Water/There is no water body specific WQO.

Data quality assessment. Extent to which data quality requirements met.

Calleguas Creek Characterization Study

Linkage between measurement endpoint and benefical use or standard

There is no water body specific objective applicable for this constituent.

Utility of measure for judging if standards or uses are not attained

There is no water body specific objective applicable for this constituent.

Water Body-specific InformationData 3-4 years old, data measured at site measured during all seasons.

Data used to assess water quality 13 water samples, however there is no water body specific objective

applicable for this constituent to assess for exceedances.

Spatial representation 2 sites.

Temporal representation Summer/fall/winter/spring of 98-99.

Data type Numerical data.

Use of standard methodCalleguas Creek Characterization Study methods.

Potential Source(s) of Pollutant Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation Do not list. There is no water body specific objective available for this

constituent.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because there is

not a water body specific objective for Boron in the Basin Plan.

Region 4: Calleguas Creek Reach 4 (was Revolon Slough Main Branch: Mu + Dacthal

Water Body Calleguas Creek Reach 4 (was Revolon Slough Main Branch: Mugu

Lagoon to Central Avenue)

Stressor/Media/Beneficial Use Dacthal/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint

and benefical use or standard

EDLs are not linked to Beneficial Uses.

Utility of measure for judging if standards or uses are not attained

EDLs are not applicable to Beneficial Uses.

Water Body-specific Information

Data 5-8 years old, sample taken at site, species present, sample taken from

summer during 2 years.

Data used to assess water quality 2 tissue samples, 2 samples exceeding.

Spatial representation Samples were collected spatially.

Temporal representation Summer 1994 and 1997.

Data type Numerical data.

Use of standard method TSMP Data

Potential Source(s) of Pollutant Historical use of pesticides and lubricants.

Alternative Enforceable Program

RWQCB Recommendation Delist because EDLs are not a valid assessment guideline.

SWRCB Staff Recommendation This constituent cannot be removed from the 1998 section 303(d) list

because dacthal was not listed for tissue. The 1998 listing was for

sediment concentrations of dacthal.

Region 4: Calleguas Creek Reach 6 (was Arroyo Las Posas Reaches 1 and + Nitrate as Nitrate (NO3)

Calleguas Creek Reach 6 (was Arroyo Las Posas Reaches 1 and 2 on the Water Body

1998 303(d) list)

Stressor/Media/Beneficial Use Nitrate as Nitrate (NO3)/Water/Groundwater Recharge

Data quality assessment. Extent to which data quality requirements met. NPDES Reports

Linkage between measurement endpoint

and benefical use or standard

Nitrate as Nitrate (NO3) WQO is linked to Groundwater Recharge.

Utility of measure for judging if standards or uses are not attained WQO are applicable to Groundwater Recharge.

Water Body-specific Information

Data 3-4 years old, data measured at site, measured during all seasons.

Data used to assess water quality 12 water samples, 8 sample exceeding.

1 site. Spatial representation

Temporal representation Summer/fall/winter/spring.

Data type Numerical data.

Use of standard method NPDES methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Calleguas Creek Reach 6 (was Arroyo Las Posas Reaches 1 and + Fecal Coliform

Water Body Calleguas Creek Reach 6 (was Arroyo Las Posas Reaches 1 and 2 on the

1998 303(d) list)

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1.

Data quality assessment. Extent to which data quality requirements met.

Calleguas Creek Characterization Study

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQOs is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQOs are applicable to REC-1.

Water Body-specific Information

Data 3-4 years old, data measured at site, measured during all seasons.

Data used to assess water quality

12 bacterial samples, 4 samples exceeding, Geomean of 557 exceed 200

MPN and 4 samples exceed 400 MPN.

Spatial representation

1 SILC.

Temporal representation

Summer/fall/winter/spring.

Data type

Numerical data.

Use of standard method

Calleguas Creek Characterization Study methods.

Potential Source(s) of Pollutant

Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation

List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects season, and age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Calleguas Creek Reach 7 (was Arroyo Simi Reach 1 and 2 on t + Selenium

Water Body Calleguas Creek Reach 7 (was Arroyo Simi Reach 1 and 2 on the 1998

303(d) list)

Stressor/Media/Beneficial Use Selenium/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint

and benefical use or standard

EDLs are not linked to Beneficial Uses.

Utility of measure for judging if standards or uses are not attained

EDLs are not applicable to Beneficial Uses.

 $\textbf{Water Body-specific Information} \qquad \qquad N/A$

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant Historical use of pesticides and lubricants.

Alternative Enforceable Program

RWQCB Recommendation Delist because EDLs are no longer a valid assessment guideline.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret narrative water

quality standards.

Region 4: Calleguas Creek Reach 7 (was Arroyo Simi Reach 1 and 2 on t + Organophosphates

Calleguas Creek Reach 7 (was Arroyo Simi Reach 1 and 2 on the 1998 Water Body

303(d) list)

Stressor/Media/Beneficial Use Organophosphates/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. Calleguas Creek Characterization Study

Linkage between measurement endpoint

and benefical use or standard

Toxicity, chemistry and TIE/Diazinon and Ammonia are linked to Aquatic

Life.

Utility of measure for judging if standards or uses are not attained Based on a toxicity, chemistry and TIE which are applicable to Aquatic

Water Body-specific Information Age of data 4 years, collected at site.

22 water sample, 1998-99 toxicity was documented. Subsequent chemistry Data used to assess water quality

and TIEs identified ammonia, chlorpyrifos and diazinon.

Site 1 (8 samples, 2 species) upstream from POTW, Site 3 (8 samples, 2 Spatial representation

species) downstream from POTW at Hwy 118, Site 2 (6 samples, 2

species) immediately downstream from POTW.

Temporal representation Monthly sampling from 8/1998 to 6/1999.

Data type Numerical data.

Use of standard method Calleguas Creek Characterization Study methods.

Potential Source(s) of Pollutant Agriculture, POTWs, Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List because water column toxicity which affects aquatic life beneficial use.

SWRCB Staff Recommendation After reviewing the available data and information provided by the

RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and the pollutants

identified in the TIE contribute to or cause the problem.

Region 4: Calleguas Creek Reach 7 (was Arroyo Simi Reach 1 and 2 on t + Nickel

Water Body Calleguas Creek Reach 7 (was Arroyo Simi Reach 1 and 2 on the 1998

303(d) list)

Stressor/Media/Beneficial Use Nickel/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

TSMP

N/A

Linkage between measurement endpoint

and benefical use or standard

EDLs are not linked to Beneficial Uses.

Utility of measure for judging if standards or uses are not attained

EDLs are not applicable to Beneficial Uses.

Water Body-specific Information

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant Historical use of pesticides and lubricants.

Alternative Enforceable Program

RWQCB Recommendation Delist because EDLs are no longer a valid assessment guideline.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret narrative water

quality standards.

Region 4: Calleguas Creek Reach 7 (was Arroyo Simi Reaches 1 and 2 on + Zinc

Water Body Calleguas Creek Reach 7 (was Arroyo Simi Reaches 1 and 2 on the 1998

303(d) list)

Stressor/Media/Beneficial Use Zinc/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint

and benefical use or standard

EDLs are not linked to Beneficial Uses.

Utility of measure for judging if standards or uses are not attained

EDLs are not applicable to Beneficial Uses.

Water Body-specific Information Data 4-9 years old, Environmental data measured at site/waterbody,

species/indicators present.

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant Historical use of pesticides and lubricants.

Alternative Enforceable Program

RWQCB Recommendation Delist because EDLs are no longer a valid assessment guideline.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret narrative water

quality standards.

Region 4: Calleguas Creek Reach 7 (was Arroyo Simi Reaches 1 and 2 on + Chromium

Water Body Calleguas Creek Reach 7 (was Arroyo Simi Reaches 1 and 2 on the 1998

303(d) list)

Stressor/Media/Beneficial Use Chromium/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint

and benefical use or standard

EDLs are not linked to Beneficial Uses.

Utility of measure for judging if standards or uses are not attained

EDLs are not applicable to Beneficial Uses.

 $\textbf{Water Body-specific Information} \qquad \qquad N/A$

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method TSMP methods.

Potential Source(s) of Pollutant Historical use of pesticides and lubricants.

Alternative Enforceable Program

RWQCB Recommendation Delist because EDLs are no longer a valid assessment guideline.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret narrative water

quality standards.

Region 4: Calleguas Creek Reach 7 (was Arroyo Simi Reaches 1 and 2 on + Silver

Water Body Calleguas Creek Reach 7 (was Arroyo Simi Reaches 1 and 2 on the 1998

303(d) list)

Stressor/Media/Beneficial Use Silver/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint

and benefical use or standard

EDLs are not linked to Beneficial Uses.

Utility of measure for judging if standards or uses are not attained

EDLs not applicable to Beneficial Uses.

 $\textbf{Water Body-specific Information} \qquad \qquad N/A$

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation Data was not presented.

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant Historical use of pesticides and lubricants.

Alternative Enforceable Program

RWQCB Recommendation Delist because EDLs is no longer a valid assessment guideline.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret narrative water

quality standards.

Region 4: Calleguas Creek Reach 7 (was Arroyo Simi Reaches 1 and 2 on + Fecal Coliform

Water Body Calleguas Creek Reach 7 (was Arroyo Simi Reaches 1 and 2 on the 1998

303(d) list)

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Calleguas Creek Characterization Study

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information

Data 3-4 years old, data measured at site, measured during all seasons.

Data used to assess water quality

24 bacteria samples, 17 samples exceeding the 400 MPN standard,

Geomean of 909 exceed 200 MPN.

Spatial representation

Temporal representation Summer/fall/winter/spring.

Data type Numerical data.

Use of standard methodCalleguas Creek Characterization Study methods.

2 sites.

Potential Source(s) of Pollutant Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects season, and age of the data were considered.

Region 4: Calleguas Creek Reach 9A (was lower part of Conejo Creek R + Toxicity

Water Body Calleguas Creek Reach 9A (was lower part of Conejo Creek Reach 1 on

the 1998 303(d) list)

Stressor/Media/Beneficial Use Toxicity/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Calleguas Creek Characterization Study

Linkage between measurement endpoint and benefical use or standard

Water column toxicity is linked to aquatic life however the stressor is not considered a pollutant.

Utility of measure for judging if standards or uses are not attained

Water Column toxicity is applicable to aquatic life but stressor is not a pollutant.

Water Body-specific Information Data 2-5 years old, data measured at site, during all seasons from 1997 to

2000.

Data used to assess water quality 32 water samples, number of samples exceeding the standard is low.

Spatial representation Three sampling sites, two of which overlapped on three sample dates.

Temporal representation All seasons from August 1997 to August 2000.

Data type Numerical data.

Use of standard methodCalleguas Creek Characterization Study methods.

Potential Source(s) of Pollutant POTWs and Agricultural Use.

Alternative Enforceable Program

RWQCB Recommendation Delist.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because applicable water quality standards are not exceeded and the pollutant(s) potentially causing the toxicity were not identified.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body- or site-specific information including the effects of natural sources, season, and age of the data were considered.

Most of toxicity tests did not exceed the water quality standard. Staff confidence that standards were not exceeded is moderate.

Region 4: Calleguas Creek Reach 9A (was lower part of Conejo Creek Re + Organic Enrichment-Low Dissolved Oxygen

Calleguas Creek Reach 9A (was lower part of Conejo Creek Reach 1 on Water Body

the 1998 303(d) list)

Stressor/Media/Beneficial Use Organic Enrichment-Low Dissolved Oxygen/Water/Aquatic Life.

Data quality assessment. Extent to which data quality requirements met. NPDES Monitoring

Linkage between measurement endpoint

and benefical use or standard

Organic Enrichment-Low Dissolved Oxygen WQO are linked to Aquatic

Life.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Data 1-5 years old, data measured at site, measured during all seasons.

111 water samples, 6 sample exceeding. Data used to assess water quality

2 sites. Spatial representation

Temporal representation Summer/fall/winter/spring (1997-2000).

Data type Numerical data.

Use of standard method NPDES Monitoring metadata was used.

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation Delist because the WQO for dissolved oxygen was met.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects season, and age of the data were considered.

Most of the water quality measurements did not exceed the water quality standard. The staff confidence that standards were not exceeded is high.

Region 4: Calleguas Creek Reach 9A (was lower part of Conejo Creek Re + Nitrite as Nitrogen

Water Body Calleguas Creek Reach 9A (was lower part of Conejo Creek Reach 1 on

the 1998 303(d) list)

Stressor/Media/Beneficial Use Nitrite as Nitrogen/Water/Groundwater Recharge

Data quality assessment. Extent to which data quality requirements met.

NPDES Report.

Linkage between measurement endpoint

and benefical use or standard

Nitrite as Nitrogen WQO is linked to Groundwater Recharge.

Utility of measure for judging if standards or uses are not attained

WQOs are applicable to Groundwater Recharge.

Water Body-specific Information Data 3-4 years old, data measured at site, measured during all seasons.

Data used to assess water quality 110 water samples, 18 samples exceeding.

Spatial representation 1 site only (Conejo Creek).

Temporal representation Summer/fall/winter/spring.

Data type Numerical data.

Use of standard methodCalleguas Creek Characterization Study methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program Currently in a TMDL.

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects season, and age of the data were considered.

Region 4: Calleguas Creek Reach 9A (was lower part of Conejo Creek Re + Nitrate as Nitrate (NO3)

Water Body Calleguas Creek Reach 9A (was lower part of Conejo Creek Reach 1 on

the 1998 303(d) list)

Stressor/Media/Beneficial Use Nitrate as Nitrate (NO3)/Water/Groundwater Recharge

Data quality assessment. Extent to which data quality requirements met.

Calleguas Creek Characterization Study

Linkage between measurement endpoint and benefical use or standard

Nitrate as Nitrate (NO3) WQOs are linked to Groundwater Recharge.

Utility of measure for judging if standards or uses are not attained

WQOs are applicable to Groundwater Recharge.

Water Body-specific Information Data 3-4 years old, data measured at site, measured during all seasons.

Data used to assess water quality 12 water samples, 6 samples exceeding.

Spatial representation 1 site only (Conejo Creek).

Temporal representation Summer/fall/winter/spring.

Data type Numerical data.

Use of standard methodCalleguas Creek Characterization Study methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program Currently in a TMDL.

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects season, and age of the data were considered.

Region 4: Calleguas Creek Reach 9A (was lower part of Conejo Creek Re + Nitrate as Nitrogen

Water Body Calleguas Creek Reach 9A (was lower part of Conejo Creek Reach 1 on

the 1998 303(d) list)

Stressor/Media/Beneficial Use Nitrate as Nitrogen/Water/Groundwater Recharge

Data quality assessment. Extent to which data quality requirements met.

NPDES Reports

Linkage between measurement endpoint

and benefical use or standard

Nitrate as Nitrogen WQO is linked to Groundwater Recharge.

Utility of measure for judging if standards or uses are not attained

WQOs are applicable to Groundwater Recharge.

Water Body-specific Information Data 3-4 years old, data measured at site, measured during all seasons.

Data used to assess water quality 111 water samples, 15 sample exceeding.

Spatial representation 1 site only (Conejo Creek).

Temporal representation Summer/fall/winter/spring.

Data type Numerical data.

Use of standard methodCalleguas Creek Characterization Study methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects season, and age of the data were considered.

Region 4: Calleguas Creek Reach 9A (was lower part of Conejo Creek Re + Fecal Coliform

Water Body Calleguas Creek Reach 9A (was lower part of Conejo Creek Reach 1 on

the 1998 303(d) list)

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Calleguas Creek Characterization Study

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information Data 3-4 years old, data measured at site, measured during all seasons.

Data used to assess water quality 12 bacteria samples, 5 samples exceeding sample exceed 400 MPN and the

Geomean of 206 exceeds 200.

Spatial representation 1 site (small Reach).

Temporal representation Summer/fall/winter/spring.

Data type Numerical data.

Use of standard methodCalleguas Creek Characterization Study methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects season, and age of the data were considered.

Region 4: Calleguas Creek Reach 9A - Conejo Creek (South Fork)-was Co + Dieldrin

Water Body Calleguas Creek Reach 9A - Conejo Creek (South Fork)-was Conejo Creek

Reach 4 and part of Reach 3 on the 1998 303(d) list)

Stressor/Media/Beneficial Use Dieldrin/Tissue/COMM

Data quality assessment. Extent to which data quality requirements met.

TSMP-QAPP

Linkage between measurement endpoint

and benefical use or standard

Dieldrin MTRLs are linked to COMM.

Utility of measure for judging if standards or uses are not attained

MTRLs are applicable to COMM.

Water Body-specific Information

Data 4 years old, measured at site, species present, one-time sampling.

Data used to assess water quality

2 tissue samples, 2 samples exceeding.

Spatial representation

Sample was collected spatially.

Temporal representation

One-time sample.

Data type

Numerical data.

Use of standard method

TSMP methods.

Potential Source(s) of Pollutant

Historical use of pesticides and lubricants.

Alternative Enforceable Program

RWQCB Recommendation

List due to exceedances of MTRLs.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and insufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Water body information including the age of the data were considered.

Region 4: Calleguas Creek Reach 9A - Conejo Creek (South Fork)-was Co + PCBs

Water Body Calleguas Creek Reach 9A - Conejo Creek (South Fork)-was Conejo Creek

Reach 4 and part of Reach 3 on the 1998 303(d) list)

Stressor/Media/Beneficial Use PCBs/Tissue/COMM

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint

and benefical use or standard

PCB MTRLs are linked to COMM.

Utility of measure for judging if standards or uses are not attained

MTRLs are applicable to COMM.

Water Body-specific Information

Data 4 years old, measured at site, one-time sampling.

Data used to assess water quality

2 composite tissue samples, 2 samples exceeding.

Spatial representation

Sample were collected spatially.

Temporal representation

One-time sample.

Data type

Numerical data.

Use of standard method

TSMP methods.

Potential Source(s) of Pollutant

Historical use of pesticides and lubricants.

Alternative Enforceable Program

RWQCB Recommendation

List due to exceedances of MTRLs.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and insufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Water body information including the age of the data were considered.

Region 4: Calleguas Creek Reach 9A - Conejo Creek (South Fork)-was Co + Chlordane

Water Body Calleguas Creek Reach 9A - Conejo Creek (South Fork)-was Conejo Creek

Reach 4 and part of Reach 3 on the 1998 303(d) list)

Stressor/Media/Beneficial Use Chlordane/Tissue/COMM.

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint

and benefical use or standard

Chlordane MTRLs are linked to COMM

Utility of measure for judging if standards or uses are not attained

MTRLs are applicable to COMM.

Water Body-specific Information

Data 4 years old, measured at site, species present, one-time sampling.

Data used to assess water quality 2 tissue samples, 2 samples exceeding.

Spatial representation Sample was collected spatially.

Temporal representation One-time sample. **Data type** Numerical data.

Use of standard method TSMP methods.

Potential Source(s) of Pollutant Historical use of pesticides and lubricants.

Alternative Enforceable Program

RWQCB Recommendation List due to exceedances of MTRLs.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and insufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Water body information including the age of the data were considered.

Region 4: Calleguas Creek Reach 9A - Conejo Creek (South Fork)-was Co + Hexachlorocyclohexane

Water Body Calleguas Creek Reach 9A - Conejo Creek (South Fork)-was Conejo Creek

Reach 4 and part of Reach 3 on the 1998 303(d) list)

Stressor/Media/Beneficial Use Hexachlorocyclohexane/Tissue/COMM

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint

and benefical use or standard

Hexachlorocyclohexane MTRLs are linked to COMM.

Utility of measure for judging if standards or uses are not attained

MTRLs are applicable to COMM.

Water Body-specific Information

Data 4 years old, measured at site, species present, one-time sampling.

Data used to assess water quality 2 tissue samples, 2 samples exceeding.

Spatial representation Sample was collected spatially.

Temporal representationOne-time sample. **Data type**Numerical data.

Use of standard method TSMP methods.

Potential Source(s) of Pollutant Historical use of pesticides and lubricants.

Alternative Enforceable Program

RWQCB Recommendation List due to exceedances of MTRLs.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and insufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Water body information including the age of the data were considered.

Region 4: Calleguas Creek Reach 9B (was part of Conejo Creek Reaches + Organic Enrichment-Low Dissolved Oxygen

Water Body Calleguas Creek Reach 9B (was part of Conejo Creek Reaches 1 and 2)

Stressor/Media/Beneficial Use Organic Enrichment-Low Dissolved Oxygen/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

NPDES Monitoring OA/OC

Linkage between measurement endpoint and benefical use or standard

Organic Enrichment-Low Dissolved Oxygen WQO are linked to Aquatic

Life.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Data 2 to 5 years old.

Data used to assess water quality 83 samples, 5 samples (6%) less than 5 mg/L.

Spatial representation One site.

Temporal representation Sampling all seasons from 7/1997 to 11/2/2000.

Data type TMDL monitoring methods.

Use of standard method NPDES methods.

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation Delist.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the effects of natural sources, season, storm events and age of the data were considered.

Region 4: Calleguas Creek Reach 9B (was part of Conejo Creek Reaches + Unnatural Foam and Scum

Water Body Calleguas Creek Reach 9B (was part of Conejo Creek Reaches 1 and 2)

Stressor/Media/Beneficial Use Unnatural Foam and Scum/Water/REC-1, REC-2 and Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Calleguas Creek Characterization Study and DFG

Linkage between measurement endpoint and benefical use or standard

Unnatural Foam and Scum is linked to REC-2, however listing is based on photograph documentation.

Utility of measure for judging if standards or uses are not attained

Use of measure is limited (based on photographs).

Water Body-specific Information Narrative information including photographs. Water samples were not

collected.

Data used to assess water quality One photograph.

Spatial representation One photograph.

Temporal representation 21-Apr-01.

Data type Non numerical information (One Photograph).

Use of standard methodCalleguas Creek Characterization Study methods.

Potential Source(s) of Pollutant Agriculture and Natural sources.

Alternative Enforceable Program

RWQCB Recommendation List due to non-attainment of the narrative objective for floating and

settleable materials objective in the Basin Plan.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the Monitoring List because the data are inadequate to determine if a pollutant contributes or causes any standards exceedance. The cause of the foam and scum may be nutrient enrichment but such pollutants have not been identified.

This conclusion is based on the staff findings that:

- 1. The data exhibited insufficient spatial and temporal coverage.
- 2. The evaluation guideline used to interpret narrative water quality standards is inadequate.
- 3. Data are not numerical, based on one photograph.
- 4. Non-standard methods were used.
- 5. No water quality measurements were submitted.

Staff confidence that standards were exceeded is extremely low.

Region 4: Calleguas Creek Watershed (Reaches 1-8, 11) Sedimentation

Water Body Calleguas Creek Watershed (Reaches 1-8, 11)

Stressor/Media/Beneficial Use Sedimentation/Sediment/Aquatic Life.

Data quality assessment. Extent to which data quality requirements met.

Calleguas Creek Characterization Study/DFG Bioassessment.

Linkage between measurement endpoint and benefical use or standard

Macroinvertebrate and Bioassessment are linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

DFG guidelines for macroinvertebrate and bioassessment are applicable to Aquatic Life.

Water Body-specific InformationData 3-8 years old, data measured at site, species present.

Data used to assess water quality Bioassessment.

Spatial representation Some sites listed.

Temporal representation Unknown.

Data type Non-numerical data.

Use of standard method DFG methods.

Potential Source(s) of Pollutant Agriculture and natural sources.

Alternative Enforceable Program

RWQCB Recommendation List due to excessive sedimentation.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because sedimentation contributes to or causes the problem. Listing was based on a 1998 DFG bioassessment report.

This conclusion is based on the staff findings that:

- 1. The information provided in the report is considered adequate.
- 2. Beneficial uses apply to the water body.
- 3. The bioassessment evaluation guideline used to interpret narrative water quality standards is adequate.
- 4. Data are not numerical.
- 5. Standard bioassessment methods were used.
- 6. Other site-specific information including the effects of natural sources, season, storm events, and age of the data were considered.

An adequate amount of biological measurements exceeded the bioassessment guidelines. Staff confidence that standards were exceeded is moderate.

Region 4: Canada Larga Fecal Coliform

Water Body Canada Larga

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Unknown.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific Information

Data is 1-3 year old, data measured in the waterbody, samples collected

different in seasons and years.

Data used to assess water quality

Fecal Coliform (9 bacteria samples, 1 sample exceeding), E. coli (10 bacteria samples, 3 samples exceeding), Combined (19 bacteria samples, 4 samples exceeding).

Spatial representation

Unknown.

Temporal representation

Different seasons and years.

Data type

Numerical data.

Use of standard method

Unknown.

Potential Source(s) of Pollutant

Horse stables, land use, cattle, wildlife.

Alternative Enforceable Program

RWQCB Recommendation

List due to greater than 10% exceedance of the fecal coliform objective.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of season and age of the data were considered.

Region 4: Canada Larga Dissolved Oxygen

Canada Larga Water Body Stressor/Media/Beneficial Use Dissolved Oxygen/Water/Aquatic Life (warm-cold water and wildlife habitat, spawning, reproduction and migration) Ojai Valley River Volunteer Monitoring Program. Data quality assessment. Extent to which data quality requirements met. Dissolved Oxygen WQO is linked to Aquatic Life. Linkage between measurement endpoint and benefical use or standard Utility of measure for judging if WQO exceedance below 5 mg/L for Dissolved Oxygen is applicable to standards or uses are not attained Aquatic Life. Water Body-specific Information Data is 1-3 year old, data measured in the waterbody, samples collected different in seasons and years. 21 water samples, 5 samples exceeding. Data used to assess water quality Spatial representation 2 stations. Temporal representation Collected during all seasons. Data type Numerical data. Use of standard method Ojai Valley River Volunteer Monitoring Program methods. Potential Source(s) of Pollutant Nonpoint sources. Alternative Enforceable Program **RWQCB Recommendation** List due to greater than 10% exceedance of the instantaneous dissolved oxygen objective. After reviewing the available data and information and the RWQCB **SWRCB Staff Recommendation**

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of season and age of the data were considered.

Region 4: Castlerock Beach Bacterial Indicators

Water Body Castlerock Beach

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

County Health Department

Linkage between measurement endpoint and benefical use or standard

Bacterial Indicators are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Data can be compared directly to bacterial indicator water quality standards which is applicable to REC-1.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 17 samples, 13 samples exceeding.

Spatial representation 1 station: ID99999. This station represents the beach 50 yards on either

side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the

After reviewing the available data and information provided by the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes

to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the effects of age of the data were considered.

Region 4: Channel Islands Harbor - Beach Park at the end of Rocks Bacterial Indicators

Water Body Channel Islands Harbor - Beach Park at the end of Rocks

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

County Health Department

Linkage between measurement endpoint and benefical use or standard

Bacterial Indicators are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Data can be compared directly to bacterial indicator water quality standards which are applicable to REC-1.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 33 samples, 2 samples exceeding.

Spatial representation 1 station: VC(37000). This station represents the beach 50 yards on either

side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation Do not list.

SWRCB Staff Recommendation

After reviewing the available data and information provided by the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the effects of age of the data were considered.

Region 4: Channel Islands Harbor-Beach Park at S. end of Victoria Ave + Bacterial Indicators

Water Body Channel Islands Harbor-Beach Park at S. end of Victoria Avenue

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

County Health Department

Linkage between measurement endpoint and benefical use or standard

Bacterial Indicators are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Data can be compared directly to bacterial indicator water quality standards.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 99 samples, 54 samples exceeding.

Spatial representation 1 station: VC(37000). This station represents the beach 50 yards on either

side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information provided by the

RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes

to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the effects of age of the data were considered.

Region 4: Cold Creek Algae

Tilgue	
Water Body	Cold Creek
Stressor/Media/Beneficial Use	Algae/Water/REC-1 and REC-2, Aquatic Life (spawning, rare and endangered species, warm and cold, wildlife freshwater habitat)
Data quality assessment. Extent to which data quality requirements met.	QA/QC unknown data generated by Heal the Bay monitoring program.
Linkage between measurement endpoint and benefical use or standard	Excessive Algae growth is linked to REC-1 and REC-2, however Aquatic Life linkage is not clear.
Utility of measure for judging if standards or uses are not attained	New Zealand Periphyton Guideline (Biggs, 2000) applicability uncertain.
Water Body-specific Information	Data 1-4 years old, data measured at site, species present, measured during fall and spring in 2 years.
Data used to assess water quality	43 samples, 8 samples exceed the 30% algae cover based on Biggs, New Zealand Periphyton Guideline (2000). No pollutant was identified.
Spatial representation	2 sites.
Temporal representation	Fall and spring in two years.
Data type	Numerical data.
Use of standard method	Heal the Bay (Citizens Monitoring) methods.
Potential Source(s) of Pollutant	Nonpoint sources from septic tanks and livestock.
Alternative Enforceable Program	
RWQCB Recommendation	List due to observations of excessive algal growth-greater than 30% coverage, based on Biggs (2000).
SWRCB Staff Recommendation	After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the Monitoring List. The Basin Plan Water Quality Objective for floating material may be exceeded but habitat features or the biostimulatory substance contributing or causing such algae growth has not been identified.
	This conclusion is based on the staff findings that: 1. The data is considered to be of adequate quality for REC-2 impact determinations.

- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Non-standard methods were used.
- 8. Other water body- or site-specific information including the age of the data were considered.

Region 4: Cold Creek Algae

An adequate number of algae coverage measurements exceed the REC-2 Basin Plan Water Quality Objective for Floating Materials. The staff confidence that standards were exceeded is moderate. However, the pollutant causing the algae growth has not been identified.

Region 4: Colorado Lagoon Lead

Colorado Lagoon Water Body

Stressor/Media/Beneficial Use Lead/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. Not applicable

Linkage between measurement endpoint

and benefical use or standard

EDLs are not linked to Beneficial Uses.

Utility of measure for judging if

standards or uses are not attained

EDLs are not applicable to Beneficial Uses.

Water Body-specific Information N/A

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation Unknown.

N/A Data type

Use of standard method N/A

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation Delist because listing was based on EDLs which not a valid assessment

guideline.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

> documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret water quality

standards.

Region 4: Compton Creek Trash

Water Body Compton Creek

Stressor/Media/Beneficial Use Trash/Water/REC-1, REC-2, and Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Quality assurance information was not provided.

Linkage between measurement endpoint and benefical use or standard

Trash is linked to REC-1, REC-2 and Aquatic Life.

Utility of measure for judging if standards or uses are not attained

Photographs can indicate gross impacts on beneficial uses and whether standards have been exceeded. Measurements of the amount of trash collected can provide a relative measure of the potential for nuisance.

Water Body-specific Information Photographs of the condition on the Creek were provided. The

photographs were taken at the Creek on 9/21/2002, three weeks after the creek channel was cleaned out by heavy equipment for flood control purposes. Data on the collection of trash and debris were was also

submitted.

Data used to assess water quality 1650 pounds of trash and debris were collected from volunteers over a 4

hour period in 2002. After the cleanup of the small section of the Creek, trash was still present that could have affected habitat and impeded flows.

Spatial representation Along 75 yards of the Creek.

Temporal representation One 4 hour period in 2002.

Data type Numerical and Non-numerical.

Use of standard method Unknown

Potential Source(s) of Pollutant Probably storm water discharge.

Alternative Enforceable Program

RWQCB RecommendationNo recommendation was made by the RWQCB.

SWRCB Staff Recommendation In the review of the availab

In the review of the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the Monitoring List because the data are inadequate to determine whether applicable water quality standards are not

exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of unknown quality.
- 2. The data exhibited insufficient spatial and temporal coverage.

Region 4: Coyote Creek Ammonia

Water Body Coyote Creek

Stressor/Media/Beneficial Use Ammonia/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

There was no new data assessed for this water body-pollution combination.

Linkage between measurement endpoint

and benefical use or standard

N/A

Utility of measure for judging if standards or uses are not attained

N/A

Water Body-specific Information

N/A

Data used to assess water qualityNo new data were submitted which indicates that water quality standards

are met.

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant Point sources

Alternative Enforceable Program

An alternative enforceable program is in place that will address ammonia water quality standards exceedances for this Reach.

In June 1995, the seven water reclamation plants discharging in the San Gabriel River and Santa Clara River watersheds received NPDES permits containing requirements regarding compliance with the Basin Plan water quality objectives for ammonia. In accordance with these permits, the Los Angeles County Sanitation Districts have been pursuing the addition of nitrification and denitrification facilities at each of these plants to comply with the ammonia objectives. By June 2003, it is expected that these new facilities will be operational and ammonia will be drastically reduced.

Research facility operation shows that the monthly average ammonia concentration fully complies with the chronic ammonia objective that are expected to be applicable in June 2003.

It is probable that the majority of ammonia discharged to this water body was contributed by POTWs. Information in the record indicates that the majority (over 95%) of the ammonia in the Los Angeles River was contributed by POTWs. It is probable that the contribution in the San Gabriel River watershed is dominated by contributions from POTWs as well. Generally, concentrations of ammonia upstream of the treatment plants is much lower than downstream concentrations (up to an order of magnitude difference).

RWOCB Recommendation

None.

Region 4: Coyote Creek Ammonia

SWRCB Staff Recommendation

After reviewing the available data and information for this recommendation, SWRCB staff conclude that the water body should be placed on the Enforceable Program list because applicable water quality standards are exceeded and another program will address the problem.

Region 4: Coyote Creek Dissolved Copper

Water Body Coyote Creek

Stressor/Media/Beneficial Use Dissolved Copper/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Stormwater Monitoring Program

Linkage between measurement endpoint and benefical use or standard

Dissolved Copper CTR criterion is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

CTR criterion is applicable to Aquatic Life.

Water Body-specific Information Data 2-5 years old, data measured in waterbody, sample taken different

seasons and years.

Data used to assess water quality 26 water samples, 16 samples exceeding.

Spatial representation 1 site.

Temporal representation Fall, winter, spring (1997-2000).

Data type Numerical data.

Use of standard method Stormwater Monitoring Program methods.

Potential Source(s) of Pollutant Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List due to greater than 10% exceedance of the WQO and CTR.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical, not numerical, both numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of season and age of the data were considered.

Region 4: Coyote Creek Toxicity

Water Body Coyote Creek

Stressor/Media/Beneficial Use Toxicity/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Data submitted in the 2000 NPDES Annual Monitoring Reports of the Long Beach and Valencia Water Reclamation Plants.

Linkage between measurement endpoint and benefical use or standard

Toxicity is linked to Aquatic Life, however the stressor was not confirmed.

Utility of measure for judging if standards or uses are not attained

Toxicity is applicable to Aquatic Life, however the stressor was not confirmed.

Water Body-specific Information

Receiving water stations downstream of the Long Beach WRP on Coyote Creek in 1999-2000.

Data used to assess water quality

Chronic toxicity has been detected at receiving water stations downstream of the Long Beach WRP on Coyote Creek in 1999-2000 and downstream of the Valencia WRP on the Santa Clara River during 2000. Toxicity identification evaluations have been performed using zeolite filtration to control ammonia toxicity. The test results indicated ammonia was likely the principal cause of toxicity.

Spatial representation

Receiving water stations downstream of the Long Beach WRP on Coyote Creek and downstream of the Valencia WRP on the Santa Clara River.

Temporal representation

Toxicity identification evaluation completed: 1999-2000.

Data type

Numerical data.

Use of standard method

Unknown.

Potential Source(s) of Pollutant

Point sources.

Alternative Enforceable Program

An alternative enforceable program is in place that will address ammonia water quality standards exceedances for this Reach.

In June 1995, the seven water reclamation plants discharging in the San Gabriel River and Santa Clara River watersheds received NPDES permits containing requirements regarding compliance with the Basin Plan water quality objectives for ammonia. In accordance with these permits, the Los Angeles County Sanitation Districts have been pursuing the addition of nitrification and denitrification facilities at each of these plants to comply with the ammonia objectives. By June 2003, it is expected that these new facilities will be operational and ammonia will be drastically reduced.

Research facility operation shows that the monthly average ammonia concentration fully complies with the chronic ammonia objective that are expected to be applicable in June 2003.

It is probable that the majority of ammonia discharged to this water body was contributed by POTWs.

RWQCB Recommendation

None.

Region 4: Coyote Creek Toxicity

SWRCB Staff Recommendation

After reviewing the available data and information for this recommendation, SWRCB staff conclude that the water body should be placed on the Enforceable Program list because applicable water quality standards are exceeded and another program will address the problem.

Region 4: Coyote Creek Dissolved Lead

Water Body Coyote Creek

Stressor/Media/Beneficial Use Dissolved Lead/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Los Angeles County Department of Public Works

Linkage between measurement endpoint and benefical use or standard

Dissolved Lead CTR is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

CTR is applicable to Aquatic Life.

Water Body-specific Information

Data 2-5 years old, data measured in waterbody, sample taken different

seasons and years.

Data used to assess water quality 26 water samples, 18 samples exceeding.

Spatial representation 1 site (S 13).

Temporal representation Fall, winter, spring (1997-1999).

Data type Numerical data.

Use of standard methodLos Angeles County Department of Public Works methods.

Potential Source(s) of Pollutant Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List due to exceedances of the dissolved chronic criterion.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of season and age of the data were considered.

Region 4: Coyote Creek Dissolved Zinc

Water Body Coyote Creek

Stressor/Media/Beneficial Use Dissolved Zinc/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Stormwater Monitoring Program

Linkage between measurement endpoint and benefical use or standard

Dissolved Zinc CTR criterion is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

CTR criterion is applicable to Aquatic Life.

Water Body-specific Information Data 2-5 years old, data measured in waterbody, sample taken different

seasons and years.

Data used to assess water quality 26 water samples, 6 samples exceeding.

Spatial representation 1 site (S 14).

Temporal representation Fall, winter, spring (1997-2000).

Data type Numerical data.

Use of standard method Stormwater Monitoring Program methods.

Potential Source(s) of Pollutant Nonpoint sources.

Alternative Enforceable Program

RWOCB Recommendation List due to exceedances of the dissolved chronic criterion.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of season and age of the data were considered.

Region 4: Coyote Creek Silver

Water Body Coyote Creek

Stressor/Media/Beneficial Use Silver/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint

and benefical use or standard

EDLs and MTRLs are not linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

MTRLs and EDLs are not applicable to Aquatic Life.

Water Body-specific Information

Data was not presented.

Data was not presented.

Data used to assess water quality

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Temporal representation

Spatial representation

Data was not presented.

Data was not presented.

Data type

Data was not presented.

Use of standard method

TSMP methods.

Potential Source(s) of Pollutant

Historical use of pesticides.

Alternative Enforceable Program

RWQCB Recommendation

Delist because listing was based on EDL which are not a valid assessment

guideline.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are no longer a valid as a water quality standard assessment tool. In addition. MTRLs are not linked to aquatic life

beneficial uses.

Region 4: Coyote Creek Total Selenium

Coyote Creek Water Body

Stressor/Media/Beneficial Use Total Selenium/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. Stormwater Monitoring Program

Linkage between measurement endpoint

and benefical use or standard

Total Selenium CTR criterion is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained CTR criterion is applicable to Aquatic Life.

Water Body-specific Information Data 2-5 years old, data measured in waterbody, stormwater events.

Data used to assess water quality 26 water samples, 5 samples exceeding.

1 station. Spatial representation

Fall 1997, fall 1998, winter-summer 1999. **Temporal representation**

Data type Numerical data.

Use of standard method Stormwater Monitoring Program methods.

Potential Source(s) of Pollutant Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List due to exceedances of the dissolved chronic criterion.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of season and age of the data were considered.

Region 4: Dominguez Channel (Estuary to Vermont) Copper

Water Body Dominguez Channel (Estuary to Vermont)

Stressor/Media/Beneficial Use Copper/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

BPTCP

Linkage between measurement endpoint

and benefical use or standard

Copper ERM-PELs are linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

ERM-PELs are applicable to aquatic life but using these guidelines in the absence of synoptically collected toxicity data is controversial.

Water Body-specific Information Data 7 years old, environmental data measured at site, one-time sample,

one event.

Data used to assess water quality 1 sediment sample, 1 sample exceeding.

Spatial representation One sample only.

Temporal representation One sample event.

Data type Numerical data.

Use of standard methodBPTCP methods.

Potential Source(s) of Pollutant Historical use of pesticides and lubricants for DDT, chlordane and PCBs.

Stormwater runoff, aerial deposition and historical discharges for copper

Alternative Enforceable Program BPTCP Consolidated Plan.

RWQCB Recommendation List due to exceedances of ERM-PELs.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because it cannot be determined if the applicable water quality standards are exceeded.

This conclusion is based on the staff findings that the data exhibited insufficient temporal coverage. An inadequate amount of water quality

measurements were collected and analyzed.

Region 4: Dominguez Channel (Estuary to Vermont) **PCBs**

Dominguez Channel (Estuary to Vermont) Water Body

Stressor/Media/Beneficial Use PCBs/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. BPTCP, OAPP

Linkage between measurement endpoint

and benefical use or standard

PCB ERM-PELs are generally linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained ERM-PELs are applicable to aquatic life, however using these guidelines in the absence of synoptically collected toxicity data is controversial.

Water Body-specific Information Data 8 years old, environmental data measured at site, one-time sample,

one event.

1 sediment sample, 1 sample exceeding. Data used to assess water quality

Spatial representation One sample only.

Temporal representation One sample event. Data type Numerical data.

Use of standard method BPTCP methods.

Potential Source(s) of Pollutant Historical use of pesticides and lubricants for DDT, chlordane and PCBs.

Stormwater runoff, aerial deposition and historical discharges for copper.

Alternative Enforceable Program

RWQCB Recommendation List due to exceedance in ERM-PELs.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because it cannot be determined if the applicable water quality standards are exceeded.

This conclusion is based on the staff findings that the data exhibited insufficient temporal coverage. An inadequate amount of water quality

measurements were collected.

Region 4: Dominguez Channel (Estuary to Vermont) Unknown pollutant

Water Body Dominguez Channel (Estuary to Vermont)

Stressor/Media/Beneficial Use Unknown pollutant/Sediment/Aquatic Life.

Data quality assessment. Extent to which data quality requirements met.

BPTCP, OAPP.

Linkage between measurement endpoint

and benefical use or standard

Sediment toxicity is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

Sediment toxicity is applicable to Aquatic Life, however it has limited applicability because only one sediment sample was taken.

Water Body-specific Information Data 7 years old, environmental data measured at site/waterbody, one-time

sample.

Data used to assess water quality 1 sediment sample.

Spatial representation One sample only.

Temporal representation One sample event.

Data type Numerical data.

Use of standard method BPTCP methods.

Potential Source(s) of Pollutant Historical use of pesticides and lubricants for DDT, chlordane and PCBs.

Stormwater runoff, aerial deposition and historical discharges for copper.

Alternative Enforceable Program None.

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because it cannot be determined if the applicable water quality standards are exceeded.

This conclusion is based on the staff findings that the data exhibited insufficient temporal coverage. An inadequate amount of water quality

measurements exceeded the water quality standard.

Region 4: Dominguez Channel (Estuary to Vermont) Chlordane

Water Body Dominguez Channel (Estuary to Vermont)

Stressor/Media/Beneficial Use Chlordane/Sediment/Aquatic Life.

Data quality assessment. Extent to which data quality requirements met.

BPTCP

Linkage between measurement endpoint

and benefical use or standard

Chlordane ERM-PELs are generally linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

ERM-PELs are applicable to aquatic life, however using these guidelines in the absence of synoptically collected toxicity data is controversial.

Water Body-specific Information

Data 8 years old, environmental data measured at site, one-time sample,

one event.

Data used to assess water quality 1 sediment sample, 1 sample exceeding.

Spatial representation One sample only.

Temporal representation One sample event.

Data type Numerical data.

Use of standard method Unknown.

Potential Source(s) of Pollutant Historical use of pesticides and lubricants for DDT, chlordane and PCBs.

Stormwater runoff, aerial deposition and historical discharges for copper.

Alternative Enforceable Program BPTCP Consolidated Plan.

RWQCB Recommendation List due to exceedance in ERM-PELs.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because it cannot be determined if the applicable water quality standards are exceeded.

This conclusion is based on the staff findings that the data exhibited insufficient temporal coverage. An inadequate amount of water quality

measurements were collected and analyzed.

Region 4: Dry Canyon Creek Total Selenium

Water Body Dry Canyon Creek

Stressor/Media/Beneficial Use Total Selenium/Water/Aquatic Life (warm freshwater and wildlife habitat)

Data quality assessment. Extent to which data quality requirements met.

City of Calabasas

Linkage between measurement endpoint and benefical use or standard

Total Selenium CTRs are linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

CTR is applicable to Aquatic Life.

Water Body-specific Information

Data 1-2 years, data measured at site, multiple event in different seasons.

Data used to assess water quality 32 water samples, 9 samples exceeding.

Spatial representation Samples were collected spatially along the creek.

Temporal representation Fall, winter, spring in different years (2000 - 2001).

Data type Numerical data.

Use of standard methodCity of Calabasas methods.

Potential Source(s) of Pollutant Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other site-specific information including the effects of season, storm events, and age of the data were considered.

Region 4: Dry Canyon Creek Fecal Coliform

Dry Canyon Creek Water Body

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met. City of Calabasas

Linkage between measurement endpoint

and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained WQO is applicable to REC-1.

Water Body-specific Information Data 1-2 years, data measured at site, seasonality and years.

Data used to assess water quality 56 samples, 11 samples exceeding.

Samples were collected spatially along the creek. Spatial representation

Fall, winter, spring in different years (2000-2001). **Temporal representation**

Data type Numerical data.

Use of standard method City of Calabasas methods.

Potential Source(s) of Pollutant Natural and urban sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other site-specific information including the effects of season, storm events, and age of the data were considered.

Region 4: Duck Pond Ag Drain/Mugu Drain/Oxnard Drain #2 Chem A

Water Body Duck Pond Ag Drain/Mugu Drain/Oxnard Drain #2

Stressor/Media/Beneficial Use Chem A/Tissue/Aquatic Life.

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint

and benefical use or standard

Tissue NAS guidelines are linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

Tissue NAS guidelines are applicable to Aquatic Life.

 $\textbf{Water Body-specific Information} \qquad \qquad N/A$

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant Historical use of pesticides.

Alternative Enforceable Program

RWOCB Recommendation Originally recommended for delisting because listing was based on NAS

outdated guidelines. Reevaluation resulted in a recommendation to maintain the listing because Chem A group are not outdated and are still

valid guidelines set by NAS to protect aquatic life.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concludes that the water body should not be removed from the section 303(d) list because applicable NAS guidelines are not outdated, and are a valid assessment

guideline.

Region 4: Echo Park Lake Trash

Water Body	Echo Park Lake
Stressor/Media/Beneficial Use	Trash/Water/Aquatic Life, REC-2
Data quality assessment. Extent to which data quality requirements met.	N/A
Linkage between measurement endpoint and benefical use or standard	N/A
Utility of measure for judging if standards or uses are not attained	N/A
Water Body-specific Information	N/A
Data used to assess water quality	N/A
Spatial representation	N/A
Temporal representation	N/A
Data type	N/A
Use of standard method	N/A
Potential Source(s) of Pollutant	N/A
Alternative Enforceable Program	N/A
RWQCB Recommendation	TMDL Completed.
SWRCB Staff Recommendation	After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the TMDLs Completed List because a

TMDL has been approved by USEPA.

TMDL has been developed for the water body-pollutant combination. The

Region 4: Hobie Beach (Channel Islands Harbor) **Bacterial Indicators**

Hobie Beach (Channel Islands Harbor)

Water Body

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met. County health department.

Linkage between measurement endpoint

and benefical use or standard

Bacterial Indicators are linked to REC-1.

Utility of measure for judging if standards or uses are not attained Data can be compared directly to bacterial indicator water quality standards which are applicable to REC-1.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 49 samples exceeding standards out of 97 samples.

1 station: VC(36000). This station represents the beach 50 yards on either Spatial representation

side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information provided by the

RWOCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes

to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the effects of age of the data were considered.

Region 4: Hopper Creek (tributary to Santa Clara River Reach 4) TDS

Water Body Hopper Creek (tributary to Santa Clara River Reach 4)

Stressor/Media/Beneficial Use TDS/Water/Agriculture

Data quality assessment. Extent to which data quality requirements met.

United Water Conservation District

Linkage between measurement endpoint and benefical use or standard

TDS WQO is linked to Agriculture.

Utility of measure for judging if standards or uses are not attained

WQO and measurement end points are applicable to Agriculture.

Water Body-specific Information Data 2-5 years old, samples collected at site.

Data used to assess water quality 11 water samples, 10 samples exceeding.

Spatial representation Limited.

Temporal representation Quarterly sampling events.

Data type Numerical data.

Use of standard methodUnited Water Conservation District methods.

Potential Source(s) of PollutantPoint and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the of age of the data were considered.

Most of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Hopper Creek (tributary to Santa Clara River Reach 4) Sulfate

Water Body Hopper Creek (tributary to Santa Clara River Reach 4)

Stressor/Media/Beneficial Use Sulfate/Water/Agriculture

Data quality assessment. Extent to which data quality requirements met.

United Water Conservation District

Linkage between measurement endpoint and benefical use or standard

Sulfate WQO are linked to Agriculture.

Utility of measure for judging if standards or uses are not attained

WQO and measurement end points are applicable to Agriculture.

Water Body-specific Information Data 2-5 years old, samples collected at site.

Data used to assess water quality 12 water samples, 11 sample exceeding.

Spatial representation Limited.

Temporal representation Quarterly sampling events.

Data type Numerical data.

Use of standard methodUnited Water Conservation District methods.

Potential Source(s) of PollutantPoint and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the of age of the data were considered.

Most of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Lake Calabasas Copper

Water Body	Lake Calabasas
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Stressor/Media/Beneficial Use Copper/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

N/A

Linkage between measurement endpoint

and benefical use or standard

EDLs not linked to Beneficial Uses.

Utility of measure for judging if standards or uses are not attained

EDLs are not applicable to Beneficial Uses.

 $\textbf{Water Body-specific Information} \qquad \qquad N/A$

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation Delist because the original listing was based on EDLs which not a valid

assessment guideline.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret narrative water

quality standards.

Region 4: Lake Calabasas Zinc

Water Body	Lake Calabasas
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Stressor/Media/Beneficial Use Zinc/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. N/A

Linkage between measurement endpoint and benefical use or standard

EDLs are not linked to Beneficial Uses.

Utility of measure for judging if standards or uses are not attained EDLs are not applicable to Beneficial Uses.

Water Body-specific Information N/A

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

N/A Data type

Use of standard method N/A

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation Delist because original listing was based on EDLs which not a valid

assessment guideline.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret narrative water

quality standards.

Region 4: Lake Lindero Selenium

Water Body Lake Lindero

Stressor/Media/Beneficial Use Selenium/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint and benefical use or standard

Median International Standards (MIS) are not linked to Aquatic life. These criteria were published by the UN as a survey of member nations health protection criteria. They are not applicable with the U.S.A.

Utility of measure for judging if standards or uses are not attained

MIS are outdated guidelines and were never applicable to Aquatic Life protection.

 $\textbf{Water Body-specific Information} \qquad \qquad N/A$

Data used to assess water quality N/A

Spatial representationN/ATemporal representationN/AData typeN/A

Data type N/A

Potential Source(s) of Pollutant Historical use of pesticides.

Alternative Enforceable Program

Use of standard method

RWQCB Recommendation Delist because the original listing was based on MIS for trace elements,

TSMP methods.

which are outdated and are not valid assessment guideline.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because applied Median International Standards (MIS) are obsolete, not applicable within the U.S.A. and do not represent valid assessment guidelines to measure

impacts on aquatic life beneficial uses.

Region 4: Lincoln Park Lake Trash

Water Body	Lincoln Park Lake
Stressor/Media/Beneficial Use	Trash/Water/Aquatic Life and REC-2
Data quality assessment. Extent to which data quality requirements met.	N/A
Linkage between measurement endpoint and benefical use or standard	N/A
Utility of measure for judging if standards or uses are not attained	N/A
Water Body-specific Information	N/A
Data used to assess water quality	N/A
Spatial representation	N/A
Temporal representation	N/A
Data type	N/A
Use of standard method	N/A
Potential Source(s) of Pollutant	N/A
Alternative Enforceable Program	N/A
RWQCB Recommendation	TMDL Completed.
SWRCB Staff Recommendation	After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the

TMDL has been approved by USEPA.

water body should be placed on the TMDLs Completed List because a TMDL has been developed for the water body-pollutant combination. The

Region 4: Los Angeles Fish Harbor TBT

Water Body Los Angeles Fish Harbor

Stressor/Media/Beneficial Use TBT/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

BPTCP

Linkage between measurement endpoint

and benefical use or standard

TBT in sediment is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

Assessment based on background levels rather than valid assessment guidelines which are not applicable to Aquatic Life.

Water Body-specific Information Unknown.

Data used to assess water quality Unknown.

Spatial representation Unknown.

Temporal representation Unknown.

Data type Unknown.

Use of standard method BPTCP.

Potential Source(s) of Pollutant Historical use of pesticides and lubricants. Stormwater runoff, aerial

deposition, and historical discharges of metal.

Alternative Enforceable Program

RWQCB Recommendation Delist because the original listing was based on exceeding background

levels rather than valid assessment guidelines.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because the original listing was based on exceeding background levels rather than valid

Region 4: Los Angeles Harbor Inner Breakwater TBT

Water Body Los Angeles Harbor Inner Breakwater

Stressor/Media/Beneficial Use TBT/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

BPTCP-QAPP

Linkage between measurement endpoint

and benefical use or standard

TBT in sediment is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

Assessment based on background levels rather than valid assessment

guideline which is not applicable to Aquatic Life.

Water Body-specific Information Unknown.

Data used to assess water quality Unknown.

Spatial representation Unknown.

Temporal representation Unknown.

Data type Unknown.

Use of standard method BPTCP.

Potential Source(s) of Pollutant Historical use of pesticides and lubricants. Stormwater runoff, aerial

deposition, and historical discharges of metal.

Alternative Enforceable Program

RWQCB Recommendation Delist the original listing was based on exceeding background levels rather

than valid assessment guidelines.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because the original listing was based on exceeding background levels rather than valid

Region 4: Los Angeles Harbor Main Channel TBT

Water Body Los Angeles Harbor Main Channel

Stressor/Media/Beneficial Use TBT/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

BPTCP

Linkage between measurement endpoint

and benefical use or standard

TBT in sediment is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

Assessment based on background levels rather than valid assessment guideline which is not applicable to Aquatic Life.

Water Body-specific Information Unknown.

Data used to assess water quality Unknown.

Spatial representation Unknown.

Temporal representation Unknown.

Data type Unknown.

Use of standard method BPTCP.

Potential Source(s) of Pollutant Historical use of pesticides and lubricants. Stormwater runoff, aerial

deposition, and historical discharges of metal

Alternative Enforceable Program

RWQCB Recommendation Delist because the original listing was based on exceeding background

levels rather than valid assessment guidelines.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because the original listing was based on exceeding background levels rather than valid

Region 4: Los Angeles Harbor-Consolidated Slip Toxaphene

Water Body Los Angeles Harbor-Consolidated Slip

Stressor/Media/Beneficial Use Toxaphene/Tissue/COMM

Data quality assessment. Extent to which data quality requirements met.

SMWP

Linkage between measurement endpoint and benefical use or standard

Toxaphene MTRLs are linked to COMM.

Utility of measure for judging if standards or uses are not attained

MTRLs are applicable to COMM.

Water Body-specific Information

Data 4-9 years old, environmental data measured at site/waterbody, species present, samples collected in 1993, 1995, 1997 and 1998.

Data used to assess water quality

4 tissue samples (67%) exceeded the water quality standard. The RWQCB provided the adequate data that was inadvertently missing in their original fact sheet.

Spatial representation

Unknown.

Temporal representation

Samples were collected in 1993, 1995, 1997 and 1998.

Data type

Numerical.

Use of standard method

SMWP.

Potential Source(s) of Pollutant

Historical use of pesticides and lubricants, stormwater runoff, aerial deposition, and historical discharges for metals.

Alternative Enforceable Program

BPTCP Consolidated Cleanup Plan.

RWQCB Recommendation

List due to exceedances in MTRLs.

SWRCB Staff Recommendation

In the review of the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem. The RWQCB provided the appropriate data, that was inadvertently missing in their original fact sheet, to support the listing of this water body-pollutant combination.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body information including the age of the data were considered.

Region 4: Los Angeles Harbor-Consolidated Slip Toxaphene

Region 4: Los Angeles Harbor-Consolidated Slip Cadmium

Los Angeles Harbor-Consolidated Slip

Water Body

Stressor/Media/Beneficial Use Cadmium/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. **BPTCP**

Linkage between measurement endpoint

and benefical use or standard

Benthic community effects, sediment toxicity, and ERM-PEL is linked to Aquatic Life.

Utility of measure for judging if

Effects data, toxicity data, and ERM-PELs are applicable to Aquatic Life.

Water Body-specific Information

Data 6 years old, one-time sample event, one season event.

Data used to assess water quality

standards or uses are not attained

14 sediment sample, 6 samples exceeding for Cadmium. Eight associated sediment samples had significant toxicity and four sediment stations had a

degraded benthic community.

Spatial representation Samples were collected spatially.

Temporal representation One-time sample. Data type Numerical data.

Use of standard method BPTCP methods were used.

Potential Source(s) of Pollutant Historical use of pesticides and lubricants, stormwater runoff, aerial

deposition, and historical discharges for metals.

Alternative Enforceable Program The Consolidated Toxic Hot Spots Cleanup Plan describes how the Los

Angeles Contaminated Task Force will develop a plan for the cleanup of this site. While the planning has progressed, no remediation of the site has

occurred. No responsible parties have been identified.

List due to exceedances of ERM/PEL sediment thresholds. **RWQCB Recommendation**

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or

causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses are applicable and apply to this water body.
- 4. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 5. Data are numerical.
- 6. Standard methods were used.

Region 4: Los Angeles Harbor-Consolidated Slip Cadmium

Region 4: Los Angeles Harbor-Consolidated Slip Copper

Water Body Los Angeles Harbor-Consolidated Slip

Stressor/Media/Beneficial Use Copper/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

BPTCP

Linkage between measurement endpoint and benefical use or standard

Benthic community effects, sediment toxicity, and ERM-PEL is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

Effects data, toxicity data, and ERM-PELs are applicable to Aquatic Life.

Water Body-specific Information Data 6-10 years old, environmental data measured at site/waterbody.

Data used to assess water quality

19 sediment samples, 19 samples exceeding ERMs-PELs for Copper.

Eight associated sediment samples had significant toxicity and four

sediment stations had a degraded benthic community.

Spatial representation Samples were collected spatially.

Temporal representation 3 different year and seasons.

Data type Numerical data.

Use of standard method BPTCP methods were used.

Potential Source(s) of Pollutant Historical use of pesticides and lubricants, stormwater runoff, aerial

deposition, and historical discharges for metals.

Alternative Enforceable Program

The Consolidated Toxic Hot Spots Cleanup Plan describes how the Los

Angeles Contaminated Task Force will develop a plan for the cleanup of this site. While the planning has progressed, no remediation of the site has

occurred. No responsible parties have been identified.

RWQCB Recommendation List due to exceedances in ERM/PEL sediment thresholds.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or

causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses are applicable and apply to this water body.
- 4. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 5. Data are numerical.
- 6. Standard methods were used.

Region 4: Los Angeles Harbor-Consolidated Slip Copper

Region 4: Los Angeles Harbor-Consolidated Slip Dieldrin

Los Angeles Harbor-Consolidated Slip

Water Body

Stressor/Media/Beneficial Use Dieldrin/Tissue/COMM

Data quality assessment. Extent to which data quality requirements met. **SMWP**

Linkage between measurement endpoint and benefical use or standard

Dieldrin MTRLs are linked to COMM.

Utility of measure for judging if standards or uses are not attained MTRLs are applicable to COMM.

Water Body-specific Information

Data 7-9 years old, environmental data measured at site/waterbody, samples collected during 2 different seasons and years.

Data used to assess water quality 3 tissue samples, 3 samples exceeding.

Samples were collected spatially. **Spatial representation**

Temporal representation Samples were collected temporally.

Data type Numerical data.

Use of standard method SMWP.

Potential Source(s) of Pollutant Historical use of pesticides and lubricants, stormwater runoff, aerial

deposition, and historical discharges for metals.

Alternative Enforceable Program

RWQCB Recommendation List due to exceedance in MTRLs.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate, quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body information including the age of the data were considered.

Region 4: Los Angeles Harbor-Consolidated Slip Zinc

Los Angeles Harbor-Consolidated Slip Water Body

Data quality assessment. Extent to which data quality requirements met.

SMWP

Zinc/Tissue

Linkage between measurement endpoint

and benefical use or standard

Stressor/Media/Beneficial Use

There is not a linkage to beneficial use.

Utility of measure for judging if standards or uses are not attained Assessment based on background levels rather than valid assessment guideline which is not applicable to aquatic life.

Water Body-specific Information Unknown.

Data used to assess water quality Unknown.

Spatial representation Samples were collected spatially.

Temporal representation Samples were collected temporally.

Data type Numerical.

Use of standard method SMWP.

Potential Source(s) of Pollutant Historical use of pesticides and lubricants, stormwater runoff, aerial

deposition, and historical discharges for metals.

Alternative Enforceable Program

RWQCB Recommendation Delist because the original listing was based on exceeding background

levels rather than valid assessment guidelines.

After reviewing the available data and information and the RWQCB **SWRCB Staff Recommendation**

documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because the original listing was based on exceeding background levels rather than valid

Region 4: Los Angeles Harbor-Consolidated Slip **TBT**

Los Angeles Harbor-Consolidated Slip Water Body

Stressor/Media/Beneficial Use TBT/Tissue/COMM

Data quality assessment. Extent to which data quality requirements met. **SMWP**

Linkage between measurement endpoint

and benefical use or standard

SMWP data is linked to COMM.

Utility of measure for judging if standards or uses are not attained Assessment based on background levels rather than valid assessment

guideline which is not applicable to COMM.

Water Body-specific Information Unknown.

Data used to assess water quality Unknown.

Spatial representation Samples were collected spatially.

Temporal representation Samples were collected temporally.

Data type Numerical data.

Use of standard method SMWP.

Potential Source(s) of Pollutant Historical use of pesticides and lubricants, stormwater runoff, aerial

deposition, and historical discharges for metals.

Alternative Enforceable Program BPTCP Consolidated Cleanup Plan.

Delist because the original listing was based on exceeding background **RWQCB Recommendation**

> levels rather than valid assessment of guidelines. Delisting applies to LA Harbor Consolidated Slip, Fish Harbor, Inner Breakwater and Main

Channel).

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because the original listing was based on exceeding background levels rather than valid

Region 4: Los Angeles Harbor-Consolidated Slip Arsenic

Water Body Los Angeles Harbor-Consolidated Slip

Stressor/Media/Beneficial Use Arsenic/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

BPTCP

Linkage between measurement endpoint

and benefical use or standard

Arsenic ERM-PELs are linked Aquatic Life.

Utility of measure for judging if standards or uses are not attained

ERM-PELs are applicable to Aquatic Life.

Water Body-specific Information Data was not presented.

Data used to assess water quality Data was not presented.

Spatial representationData was not presented.Temporal representationData was not presented.

Data type Numerical data.

Use of standard method BPTCP and SMWP.

Potential Source(s) of Pollutant Historical use of pesticides and lubricants, stormwater runoff, aerial

deposition, and historical discharges for metals.

Alternative Enforceable Program BPTCP Consolidated Cleanup Plan.

RWOCB Recommendation Inadvertently listed. Reevaluation of data revealed that arsenic did not

exceed ERM or PEL sediment thresholds.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because the water body was inadvertently listed and applicable sediment thresholds are

not exceeded.

Region 4: Los Angeles Harbor-Consolidated Slip Nickel

Los Angeles Harbor-Consolidated Slip Water Body

Stressor/Media/Beneficial Use Nickel/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. **BPTCP**

Linkage between measurement endpoint

and benefical use or standard

Benthic community effects, sediment toxicity, and ERM-PEL is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained Effects data, toxicity data, and ERM-PELs are applicable to aquatic life beneficial uses. There were 5 samples exceeding in the PEL guideline for nickel, however ERMs were not exceeded. Toxicity and sediment chemistry data was collected synoptically.

Water Body-specific Information

Data 8-10 years old, environmental data measured at site/waterbody, 2 seasons monitored in 2 different years.

Data used to assess water quality

5 sediment chemistry samples, 5 samples exceeding. Sediment toxicity data was observed in synoptically collected samples. Nickel is not identified in the Consolidated Toxic Hot Spots Cleanup Plan as a chemical contributing to the creation or maintenance of the toxic hot spot.

Spatial representation

Samples were collected spatially.

Temporal representation

3 different year (1992 and 1994) and seasons

Data type

Numerical data.

Use of standard method

BPTCP methods were used.

Potential Source(s) of Pollutant

Historical use of pesticides and lubricants, stormwater runoff, aerial deposition, and historical discharges for metals.

Alternative Enforceable Program

None.

RWQCB Recommendation

List due to exceedance of ERM/PEL sediment thresholds.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard were used.

Region 4: Los Angeles Harbor-Consolidated Slip Nickel

8. Other water body- or site-specific information including the effects of season and age of the data were considered.

Region 4: Los Angeles Harbor-Consolidated Slip Mercury

Los Angeles Harbor-Consolidated Slip

Water Body

Stressor/Media/Beneficial Use Mercury/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. **BPTCP**

Linkage between measurement endpoint and benefical use or standard

Benthic community effects, sediment toxicity, and ERM-PEL is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained Effects data, toxicity data, and ERM-PELs are applicable to Aquatic Life.

Water Body-specific Information Data 6-10 years old, environmental data measured at site/waterbody, 3

years-3 seasons.

19 sediment samples, 5 samples exceeding ERM-PEL for Mercury. Eight Data used to assess water quality

associated sediment samples had significant toxicity and four sediment

stations had a degraded benthic community.

Samples were collected spatially. Spatial representation

Temporal representation 3 different year and seasons.

Data type Numerical data.

Use of standard method BPTCP methods were used.

Potential Source(s) of Pollutant Historical use of pesticides and lubricants, stormwater runoff, aerial

deposition, and historical discharges for metals.

Alternative Enforceable Program The Consolidated Toxic Hot Spots Cleanup Plan describes how the Los

> Angeles Contaminated Task Force will develop a plan for the cleanup of this site. While the planning has progressed, no remediation of the site has

occurred. No responsible parties have been identified.

RWQCB Recommendation List due to exceedance of ERM/PEL sediment thresholds.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or

causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses are applicable and apply to this water body.
- 4. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 5. Data are numerical.
- 6. Standard methods were used.

An adequate amount of the water quality measurements exceeded the water

Region 4: Los Angeles Harbor-Consolidated Slip Mercury

quality standard. The staff confidence that standards were exceeded is moderate.

Region 4: Los Angeles River Estuary (Queensway Bay) DDT

Water Body Los Angeles River Estuary (Queensway Bay)

Stressor/Media/Beneficial Use DDT/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

BPTCP

Linkage between measurement endpoint and benefical use or standard

DDT ERM-PELs are linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

ERM-PELs are applicable to Aquatic Life.

Water Body-specific Information

Data 4-10 years old, data measured at site, data measured in different years.

Data used to assess water quality

9 samples, 6 samples exceeding. Four out of six sediment samples were found to be significantly toxic to amphipods. The benthic community was classified as transitional.

Spatial representation

Samples were collected spatially.

Temporal representation

Samples taken in 2 different years.

Data type

Numerical data.

Use of standard method

BPTCP.

Potential Source(s) of Pollutant

Historical use of pesticides and lubricants.

Alternative Enforceable Program

RWQCB Recommendation

List due to exceedance in ERM/PELs guidelines.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body information including the age of the data were considered.

Region 4: Los Angeles River Estuary (Queensway Bay) Chlordane

Water Body Los Angeles River Estuary (Queensway Bay)

Stressor/Media/Beneficial Use Chlordane/sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

BPTCP

Linkage between measurement endpoint and benefical use or standard

Chlordane ERM-PELs are linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

ERM-PELs are applicable to Aquatic Life.

Water Body-specific Information

Data 4-10 years old, data measured at site, data measured in different years.

Data used to assess water quality

9 sediment samples, 9 samples exceeding. Four out of six sediment samples were found to be significantly toxic to amphipods. The benthic community was classified as transitional.

Spatial representation

Samples were collected spatially.

Temporal representation

Samples taken in 2 different years.

Data type

Numerical data.

Use of standard method

BPTCP.

Potential Source(s) of Pollutant

Historical use of pesticides and lubricants

Alternative Enforceable Program

RWQCB Recommendation

SWRCB Staff Recommendation

List due to exceedances in ERM/PELs.

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body information including the age of the data were considered.

Region 4: Los Angeles River Estuary (Queensway Bay) Lead

Water Body Los Angeles River Estuary (Queensway Bay)

Stressor/Media/Beneficial Use Lead/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

BPTCP

Linkage between measurement endpoint and benefical use or standard

Lead ERM/PELs in sediment are linked to Aquatic Life .

Utility of measure for judging if standards or uses are not attained

ERM-PELs are applicable to Aquatic Life.

Water Body-specific Information

Data 4-10 years old, data measured at site, data measured in different years.

Data used to assess water quality

18 sediment samples, 8 samples exceeding. Four out of six sediment samples were found to be significantly toxic to amphipods. The benthic community was classified as transitional.

Spatial representation

Samples were collected spatially.

Temporal representation

Samples collected in 2 different years.

Data type

Numerical data.

Use of standard method

BPTCP.

Potential Source(s) of Pollutant

Historical use of pesticides and lubricants.

Alternative Enforceable Program

RWQCB Recommendation

List due to exceedances in ERM/PEL assessment guidelines.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body information including the age of the data were considered.

Region 4: Los Angeles River Estuary (Queensway Bay) Zinc

Water Body Los Angeles River Estuary (Queensway Bay)

Stressor/Media/Beneficial Use Zinc/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

BPTCP

Linkage between measurement endpoint and benefical use or standard

Zinc ERM-PELs are linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

ERM-PELs are applicable to Aquatic Life.

Water Body-specific Information Data 1-5 years old, measured at site during three different years.

Data used to assess water quality27 samples, 5 samples exceeding. Four out of six sediment samples were found to be significantly toxic to amphipods. The benthic community was

classified as transitional.

Spatial representation Samples collected spatially.

Temporal representation Samples collected during three different years.

Data type Numerical data.

Use of standard method BPTCP.

Potential Source(s) of Pollutant Historical use of pesticides and lubricants.

Alternative Enforceable Program

RWQCB Recommendation List due to exceedances in ERM-PEL guidelines.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 7. Water quality standard used is applicable.
- 8. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 9. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body information including the effects of season and age of the data were considered.

Region 4: Los Angeles River Estuary (Queensway Bay) PCBs

Water Body Los Angeles River Estuary (Queensway Bay)

Stressor/Media/Beneficial Use PCBs/sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

BPTCP

Linkage between measurement endpoint and benefical use or standard

PCBs ERM/PELs in sediment is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

ERM-PELs are applicable to Aquatic Life.

Water Body-specific Information

Data 4-10 years old, data measured at site, data measured in different years.

Data used to assess water quality

18 samples, 2 samples exceeding. Four out of six sediment samples were found to be significantly toxic to amphipods. The benthic community was classified as transitional.

Spatial representation

Samples were collected spatially.

Temporal representation

Samples taken in 2 different years.

Data type

Numerical data.

Use of standard method

BPTCP.

Potential Source(s) of Pollutant

Historical use of pesticides and lubricants.

Alternative Enforceable Program

RWQCB Recommendation

List due to exceedances of ERM-PELs sediment quality guideline.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body information including the age of the data were considered.

Region 4: Los Angeles River Reach 1 (Estuary to Carson Street) Dissolved Cadmium

Water Body Los Angeles River Reach 1 (Estuary to Carson Street)

Stressor/Media/Beneficial Use Dissolved Cadmium/Water/Aquatic Life (Warm, Wildlife Habitat)

Data quality assessment. Extent to which data quality requirements met.

Los Angeles County Stormwater Program

Linkage between measurement endpoint and benefical use or standard

Cadmium CTR criterion is linked to Aquatic Life and Drinking Water standard CA Code tittle 22.

Utility of measure for judging if standards or uses are not attained

CTR criterion is applicable to Aquatic Life.

Water Body-specific Information Data 3-5 years old, data measured in waterbody, sample taken different

seasons and years.

Data used to assess water quality 18 water samples, 4 samples exceeding (acute), 6 samples exceeding

(chronic), 2 samples exceeding (CTR Title 22).

Spatial representation Samples were collected mostly in main stem of Los Angeles River.

Temporal representation Fall, winter, fall, spring (1997-1999).

Data type Numerical data.

Use of standard methodLA County Stormwater Monitoring Program.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List due to a greater than 10% exceedance of dissolved and total cadmium

water quality criteria for protection of freshwater aquatic life and potential

drinking water sources.

SWRCB Staff Recommendation After reviewing the available data and information and the RWOCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or

causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other site-specific information including the effects of season, storm events, and age of the data were considered.

Region 4: Los Angeles River Reach 1 (Estuary to Carson Street) **Dissolved Copper**

Los Angeles River Reach 1 (Estuary to Carson Street) Water Body

Stressor/Media/Beneficial Use Dissolved Copper/ Water/Aquatic Life (warm-freshwater and wildlife

habitat)

Data quality assessment. Extent to which data quality requirements met. Los Angeles County Stormwater Program

Linkage between measurement endpoint and benefical use or standard

Copper CTR is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained CTR is applicable to Aquatic Life.

Water Body-specific Information Data 2-5 years old, data measured in waterbody, sample taken different

seasons and years.

18 water samples, 11 samples exceeding (acute), 13 samples exceeding Data used to assess water quality

(chronic).

Spatial representation Samples were collected mostly in main stem of Los Angeles River.

Temporal representation Fall, winter, spring (1997-1999).

Data type Numerical data.

Use of standard method Los Angeles County Stormwater Program.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List due to a greater than 10% exceedance of dissolved copper water

quality criteria for protection of freshwater aquatic life.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body information including the effects of season, storm events, and age of the data were considered.

Region 4: Los Angeles River Reach 1 (Estuary to Carson Street) Dissolved Copper

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Los Angeles River Reach 1 (Estuary to Carson Street) Dissolved Zinc

Water Body Los Angeles River Reach 1 (Estuary to Carson Street)

Stressor/Media/Beneficial Use Dissolved Zinc/Water/Aquatic Life (warm-freshwater and wildlife habitat

Data quality assessment. Extent to which data quality requirements met.

Los Angeles County Stormwater Program

Linkage between measurement endpoint and benefical use or standard

Zinc CTR is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

CTRs are applicable to Aquatic Life.

Water Body-specific Information Data 2-5 years old, data measured in waterbody, sample taken different

seasons and years.

Data used to assess water quality 18 water samples, 7 samples exceeding (acute and chronic criteria).

Spatial representation Samples were collected mainly in the main stem of the LA River.

Temporal representation Fall, winter in different years.

Data type Numerical data.

Use of standard methodLos Angeles County Stormwater Monitoring Program.

Potential Source(s) of PollutantPoint and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List due to a greater than 10% exceedance of dissolved zinc acute and chronic water quality criteria for protection of freshwater Aquatic Life.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of season, storm events, and age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Los Angeles River Reach 1 (Estuary to Carson Street) Trash

Los Angeles River Reach 1 (Estuary to Carson Street) Water Body

Stressor/Media/Beneficial Use Trash/Water/Aquatic Life and REC-2

Data quality assessment. Extent to which data quality requirements met. N/A

Linkage between measurement endpoint

and benefical use or standard

N/A

Utility of measure for judging if standards or uses are not attained N/A

Water Body-specific Information

N/A

Data used to assess water quality

N/A

Spatial representation N/A

Temporal representation N/A

N/A Data type

Use of standard method N/A

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation TMDL Completed.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the TMDLs Completed List because a TMDL has been developed for the water body-pollutant combination. The

TMDL has been approved by USEPA.

Region 4: Los Angeles River Reach 1 (Estuary to Carson Street) Total Aluminum

Water Body Los Angeles River Reach 1 (Estuary to Carson Street)

Stressor/Media/Beneficial Use Total Aluminum/Water/Groundwater Recharge

Data quality assessment. Extent to which data quality requirements met.

Los Angeles County Stormwater Program

Linkage between measurement endpoint and benefical use or standard

WQO for Aluminum Maximum Concentration Levels (MCLs) are linked to Groundwater Recharge.

Utility of measure for judging if standards or uses are not attained

MCLs are applicable to Groundwater Recharge.

Water Body-specific Information Data is 3-5 year old, data measured in the waterbody, samples collected

different in seasons and years.

Data used to assess water quality 18 water samples, 10 samples exceeding.

Spatial representation Samples were collected mainly in the main stem of the LA River.

Temporal representation Fall-1997, winter- fall 1998, winter 1999.

Data type Numerical data.

Use of standard method TSMP.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body information including the effects of season, storm events, and age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Los Angeles River Reach 2 (Carson to Figueroa Street) Trash

Water Body Los Angeles River Reach 2 (Carson to Figueroa Street)

Stressor/Media/Beneficial Use Trash/Water/Aquatic Life and REC-2

Data quality assessment. Extent to which data quality requirements met.

N/A

Linkage between measurement endpoint

and benefical use or standard

N/A

Utility of measure for judging if standards or uses are not attained

N/A

Water Body-specific Information

Data used to assess water quality

N/A N/A

Spatial representation

N/A

Temporal representation

N/A

Data type

N/A

Use of standard method

N/A

Potential Source(s) of Pollutant

N/A

Alternative Enforceable Program

RWQCB Recommendation

TMDL Completed.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the TMDLs Completed List because a TMDL has been developed for the water body-pollutant combination. The

TMDL has been approved by USEPA.

Region 4: Los Angeles River Reach 3 (Figueroa Street to Riverside Dri + Trash

Water Body

Los Angeles River Reach 3 (Figueroa Street to Riverside Drive)

Stressor/Media/Beneficial Use Trash/Water/Aquatic Life and REC-2

Data quality assessment. Extent to which data quality requirements met.

N/A

Linkage between measurement endpoint

and benefical use or standard

N/A

Utility of measure for judging if standards or uses are not attained

N/A

Water Body-specific Information

N/A

Data used to assess water quality

N/A

Spatial representation

N/A

Temporal representation

N/A

Data type

N/A

Use of standard method

N/A

Potential Source(s) of Pollutant

N/A

Alternative Enforceable Program

RWQCB Recommendation

TMDL Completed.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the TMDLs Completed List because a TMDL has been developed for the water body-pollutant combination. The TMDL has been approved by USEPA.

Region 4: Los Angeles River Reach 4 (Sepulveda Drive to Sepulveda Dam + Trash

Water Body Los Angeles River Reach 4 (Sepulveda Drive to Sepulveda Dam)

Stressor/Media/Beneficial Use Trash/Water/Aquatic Life and REC-2

Data quality assessment. Extent to which data quality requirements met.

N/A

Linkage between measurement endpoint

and benefical use or standard

N/A

Utility of measure for judging if standards or uses are not attained

N/A

Water Body-specific Information

N/A

Data used to assess water quality

N/A

Spatial representation

N/A

Temporal representation

N/A

Use of standard method

Data type

N/A

Potential Source(s) of Pollutant

N/A N/A

Alternative Enforceable Program

TMDL Completed.

SWRCB Staff Recommendation

RWQCB Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the TMDLs Completed List because a TMDL has been developed for the water body-pollutant combination. The

TMDL has been approved by USEPA.

Region 4: Los Angeles River Reach 5 (At Sepulveda Basin) Trash

Water Body Los Angeles River Reach 5 (At Sepulveda Basin)

Stressor/Media/Beneficial Use Trash/Water/Aquatic Life and REC-2

Data quality assessment. Extent to which data quality requirements met.

N/A

Linkage between measurement endpoint

and benefical use or standard

N/A

Utility of measure for judging if standards or uses are not attained

N/A

Water Body-specific Information

Data used to assess water quality

N/A N/A

Spatial representation

N/A

Temporal representation

N/A

Data type

N/A

Use of standard method

N/A

Potential Source(s) of Pollutant

N/A

Alternative Enforceable Program

RWQCB Recommendation

TMDL Completed.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the TMDLs Completed List because a TMDL has been developed for the water body-pollutant combination. The TMDL has been approved by USEPA.

Region 4: Los Angeles River Reach 5 (within Sepulveda Basin) Chem A

Water Body Los Angeles River Reach 5 (within Sepulveda Basin)

Stressor/Media/Beneficial Use Chem A/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Unknown

Linkage between measurement endpoint and benefical use or standard

Chem A NAS guidelines are linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

NAS guidelines are applicable to Aquatic Life.

Water Body-specific Information Data age is 10 years old.

Data used to assess water quality 1 tissue sample, 0 samples exceeding. This water body-pollutant was listed

on the 1996 303 (d) list in error by the RWQCB. The Chem A in this tissue sample collected in 1992 did not exceed the NAS Chem A guideline.

Spatial representation One site.

Temporal representationOne time sample. **Data type**Numerical data.

Use of standard methodUnknown.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation Delist because Chem A did not exceed the NAS guidelines in tissue.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because there is insufficient evidence to support listing the pollutant. The original listing was made in error by the RWQCB in 1996. The tissue sample collected in

1992 was below the NAS tissue guideline for Chem A.

This conclusion is based on the staff findings that the data exhibited

insufficient spatial and temporal coverage.

An adequate number of the water quality measurements did not exceed the water quality standard. The staff confidence that standards were exceeded

is low.

Region 4: Los Angeles River Reach 5 (within Sepulveda Basin) Chlorpyrifos

Water Body Los Angeles River Reach 5 (within Sepulveda Basin)

Stressor/Media/Beneficial Use Chlorpyrifos/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

N/A

Linkage between measurement endpoint

and benefical use or standard

EDLs are not linked to Beneficial Uses.

Utility of measure for judging if standards or uses are not attained

EDLs are not an applicable assessment guideline.

 $\textbf{Water Body-specific Information} \qquad \qquad N/A$

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWOCB Recommendation Delist because the original listing was based on EDLs which are not a valid

assessment guideline.

SWRCB Staff Recommendation In the review of the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret narrative water

quality standards.

Region 4: Los Cerritos Channel Chlordane

Water Body Los Cerritos Channel

Stressor/Media/Beneficial Use Chlordane/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

BPTCP

Linkage between measurement endpoint

and benefical use or standard

Chlordane ERMs-PELs are linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

Data used to assess water quality

ERMs-PELs are applicable to Aquatic Life.

Water Body-specific Information Data 8-9 years old, data measured at site, measured during the winter.

4 sediment samples, 3 samples exceeding

4 sediment toxicity test samples, 3 samples toxic

Spatial representation Data was collected spatially.

Temporal representation Winter 1993 and 1994.

Data type Numerical data.

Use of standard method BPTCP.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other site-specific information including the effects of season, storm events, and age of the data were considered.

An adequate amount of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Los Cerritos Channel Unknown

Water Body Los Cerritos Channel

Stressor/Media/Beneficial Use Unknown/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

BPTCP

Linkage between measurement endpoint

and benefical use or standard

Sediment toxicity is linkage to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

Sediment toxicity is applicable to Aquatic Life, however guidelines use are unknown.

Water Body-specific Information

Data 9-10 years old, samples taken at site.

Data used to assess water quality

4 sediment samples, 3 toxic samples.

Spatial representation

Unknown.

Temporal representation

Samples taken in 1993 and in 1994.

Data type

Numerical data.

Use of standard method

BPTCP.

Potential Source(s) of Pollutant

Unknown.

Alternative Enforceable Program

RWQCB Recommendation

List for sediment toxicity.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because sediment toxicity is a condition of a water body. Pollutants such as

chlordane contribute to or cause the observed toxicity.

Region 4: Machado Lake (Harbor Park Lake) Chem A

Water Body Machado Lake (Harbor Park Lake)

Stressor/Media/Beneficial Use Chem A/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint

and benefical use or standard

Chem A tissue NAS guidelines are linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

NAS guidelines are applicable to Aquatic Life.

Water Body-specific Information Data was not presented.

Data used to assess water quality Data was not presented.

Spatial representation Data was not presented.

Temporal representation Data was not presented.

Data type Numerical data.

Use of standard method TSMP.

Potential Source(s) of Pollutant Historical use of pesticides and lubricants.

Alternative Enforceable Program

RWOCB Recommendation Originally recommended for delisting because listing was based on NAS

outdated guidelines. Reevaluation resulted in a recommendation to maintain on list because Chem A group are not outdated and are still valid

guidelines set by NAS to protect aquatic life.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concludes that the water body should not be removed from the section 303(d) list because applicable NAS guidelines are not outdated, and are a valid assessment

guideline.

Region 4: Malibou Lake PCB

2011

Water Body Malibou Lake

Stressor/Media/Beneficial Use PCB/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

TSMP.

Linkage between measurement endpoint and benefical use or standard

PCB Tissue chemistry (MTRLs) are not linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

MTRLs are not applicable to Aquatic Life.

Water Body-specific Information Data is 5 -10 years old, measured at site, species present, two sampling

event

Data used to assess water quality PCBs were not detected in the two tissue samples collected 1992 and 1997.

This water body was originally recommended to be removed from the section 303(d) list by the RWQCB. The SWRCB staff recommended to maintain the listing because the data was not presented to support delisting. In December 2002, the RWQCB included data to support the

delisting.

Spatial representation Two tissue samples.

Temporal representation Samples were collected in 1992 and 1997.

Data type Numerical data.

Use of standard method TSMP.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation Delist because PCBs in tissue were not detected in 1992 and 1997.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list. The RWQCB provided recent data to support removing this waterbody-pollutant from the 303(d) list.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 4. Numerical data were presented.
- 5. Standard methods were used.

None of quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is moderate.

Region 4: Malibou Lake Copper

Water Body Malibou Lake

Stressor/Media/Beneficial Use Copper/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint

and benefical use or standard

EDLs are not linked to Beneficial Uses.

Utility of measure for judging if standards or uses are not attained

EDLs are not applicable to Beneficial Uses.

 $\textbf{Water Body-specific Information} \qquad \qquad N/A$

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation Delist because EDLs are not valid assessment guidelines.

SWRCB Staff Recommendation In the review of the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret narrative water

quality standards.

Region 4: Malibou Lake Chlordane

Water Body Malibou Lake

Stressor/Media/Beneficial Use Chlordane/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint and benefical use or standard

MTRLs are not linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

MTRLs are not applicable to Aquatic Life.

Water Body-specific Information

Data is 5 -10 years old, measured at site, species present, two sampling

Data used to assess water quality

2 tissue samples, 0 samples exceeding. Originally, this water body was recommended to be removed from the section 303(d) list by the RWQCB in May 2002. SWRCB staff recommended to maintain the listing because the data was not presented to support delisting. In December 2002, the RWQCB included data to support the delisting.

The tissue sample collected in 1992 is below the Chlordane MTRL guideline and chlordane was not detected in a 1997 tissue sample.

Spatial representation

Two tissue samples.

Temporal representation

Samples were collected in 1992 and 1997.

Data type

Numerical data.

Use of standard method

TSMP.

Potential Source(s) of Pollutant

Alternative Enforceable Program

Unknown.

internative Emiorecusic Program

RWQCB Recommendation

Delist is based on one sample which is now below the MTRL and chlordane was not detected in 1997.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the RWQCB provided recent data to that support water quality standards were not exceeded. The tissue sample collected in 1992 is now below the Chlordane MTRL guideline and chlordane was not detected in the 1997 tissue sample.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 4. Data are numerical.
- 5. Standard methods were used.

Region 4: Malibou Lake Chlordane

8. Other water body information including age of the data were considered.

None of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is low.

Region 4: Malibu Creek Total Selenium

Malibu Creek Water Body

Stressor/Media/Beneficial Use Total Selenium/Water/Aquatic Life (warm and cold freshwater and wildlife

habitat, rare and endangered sp., migration of aquatic org, spawn-

reproduction), REC-1 and REC-2

Data quality assessment. Extent to which data quality requirements met. Stormwater Monitoring Program

Linkage between measurement endpoint and benefical use or standard

Total Selenium CTR is Linked to Aquatic Life Beneficial, however unclear on the linkage to REC-1 and REC-2.

Utility of measure for judging if standards or uses are not attained CTRs are applicable to Aquatic Life.

Water Body-specific Information Data 3-5 years old, samples collected at site, samples collected different

years during storm event.

21 water samples, 2 samples exceeding. Data used to assess water quality

Spatial representation

Temporal representation Samples taken winter-1997; fall and winter 1999.

Data type Numerical data.

Use of standard method Stormwater Monitoring Program.

Potential Source(s) of Pollutant Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List due to a greater than one exceedance of the total selenium chronic water quality criterion to protect freshwater aquatic life.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the Monitoring List because the data are inadequate to determine if applicable water quality standards are exceeded, a pollutant or pollution contributes or causes any standards exceedance. There was an inadequate number of samples that exceeded CTR/Basin Plan WQO criteria for listing.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited insufficient spatial and temporal coverage. Also, the two exceeding samples were collected in the same month and year.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the of age of the data were considered.

Region 4: Malibu Creek Total Selenium

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is high.

Region 4: Malibu Creek Watershed [Malibu Creek, Las Virgenes Creek, T+ Sedimentation

Malibu Creek Watershed [Malibu Creek, Las Virgenes Creek, Triunfo Water Body

Creek (R1 and R2) and Medea Creek (R1 and R2)]

Stressor/Media/Beneficial Use Sedimentation/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. DFG (Heal the Bay Study)

Linkage between measurement endpoint

and benefical use or standard

Sedimentation and bioassessment are linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained Bioassessment measurements are applicable to Aquatic Life.

Water Body-specific Information Data 1 year old, collected at sites, species present, sample collected Spring

and fall 2000.

Bioassessment of micro invertebrate stream community assemblage and Data used to assess water quality

physical habitat data submitted by Heal the bay and reviewed by CDFG

11 sites. **Spatial representation**

Temporal representation Spring and Fall 2000.

Data type Numerical data.

Use of standard method DFG (California Stream Bioassessment Procedure) methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation List due to excessive sedimentation.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body information including the effects of season and age of the data were considered.

An adequate amount of bioassessment measurements indicated biological community degradation.

Region 4: Malibu Lagoon pН

Malibu Lagoon Water Body

Stressor/Media/Beneficial Use pH/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. Las Virgenas NPDES Municipal Water District

Linkage between measurement endpoint pH WQO is linked to Aquatic Life. and benefical use or standard

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Data 3-5 years old, data measured at site, measured during all seasons.

Data used to assess water quality 138 water samples, 33 samples exceeding pH 8.5

pH data was collected a various monitoring stations within the lagoon. Spatial representation

Winter 1997, Summer-Winter 1998, Winter- Fall 1999. **Temporal representation**

Data type Numerical data.

Use of standard method Las Virgenas NPDES Municipal Water District.

Potential Source(s) of Pollutant Unknown (potential sources septic systems, storm drains and birds).

Alternative Enforceable Program

RWQCB Recommendation List due to pH exceedances above of 8.5.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

> documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or

causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the age of the data were considered.

An adequate amount of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Mandalay Beach **Beach Closures**

Mandalay Beach Water Body

Stressor/Media/Beneficial Use Beach Closures/Water/REC-1

Data quality assessment. Extent to which data quality requirements met. Ventura County Environmental Health Division

Linkage between measurement endpoint

and benefical use or standard

Beach Closures are linked to REC-1.

Utility of measure for judging if standards or uses are not attained WQOs are applicable to REC-1.

Water Body-specific Information Data = 0 - 3 years old. Data measured at waterbody. No beach closures in

the last 3 years.

Data used to assess water quality No Beach Closures in the last 3 years.

Spatial representation Unknown.

Temporal representation Unknown. Data type Narrative.

Use of standard method Ventura County Environmental Health Division.

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation Delist because there were no Beach Closures in the last 3 years.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because

applicable water quality standards are not exceeded.

Region 4: Marina del Rey Harbor-Back Basin Copper

Water Body Marina del Rey Harbor-Back Basin

Stressor/Media/Beneficial Use Copper/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

N/A

Linkage between measurement endpoint

and benefical use or standard

EDLs are not linked to Beneficial Uses.

Utility of measure for judging if standards or uses are not attained

EDLs are not applicable to Beneficial Uses.

 $\textbf{Water Body-specific Information} \qquad \qquad N/A$

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type Numerical data.

Use of standard method N/A

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation Delist because EDLs do not represent a valid assessment guideline.

SWRCB Staff Recommendation In the review of the available data and information provided by the

RWQCB documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret

narrative water quality standards.

Region 4: Marina del Rey Harbor-Back Basin Lead

Water Body Marina del Rey Harbor-Back Basin

Stressor/Media/Beneficial Use Lead/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

N/A

Linkage between measurement endpoint

and benefical use or standard

EDLs are not linked to Beneficial Uses.

Utility of measure for judging if standards or uses are not attained

EDLs are not applicable to Beneficial Uses.

 $\textbf{Water Body-specific Information} \qquad \qquad N/A$

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type Numerical data.

Use of standard method N/A

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation Delist because EDLs does not represent a valid assessment guideline.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret narrative water

quality standards.

Region 4: Marina del Rey Harbor-Back Basin **DDT**

Marina del Rey Harbor-Back Basin Water Body

Stressor/Media/Beneficial Use DDT/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. BPTCP, TSMP

Linkage between measurement endpoint

and benefical use or standard

DDT ERM/PELs are linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained ERM/PELs are applicable to Aquatic Life.

Water Body-specific Information

Data is 5-9 years old.

Data used to assess water quality 18 sediment samples, 3 samples exceeding. Data was omitted in the

RWQCB's original fact sheets. In December 2002, the RWQCB include adequate data (toxicity, benthic community assessment and sediment chemistry) to support the delisting. The three samples that exceeded the

DDT ERM/PEL guideline were collected in 1994.

Unknown. Spatial representation

Temporal representation Samples were collected in 1993, 1994, 1996, and 1997.

Data type Numerical.

Use of standard method BPTCP, TSMP.

Potential Source(s) of Pollutant Historical use of pesticides, stormwater runoff/aerial deposition from urban

areas.

Alternative Enforceable Program

RWQCB Recommendation Delist because DDT sediment concentrations have dropped below ERM-

PEL guidelines.

After reviewing the available data and information and the RWQCB **SWRCB Staff Recommendation**

documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the list because the RWQCB presented data to support that water quality standards were not exceeded.

Data was omitted in the RWQCB's original fact sheets.

This conclusion is based on the staff findings that:

1. The data is considered to be of adequate quality.

2. The data exhibited sufficient temporal coverage.

3. Beneficial uses have been established and apply to the water body.

4. Water quality standard used is applicable.

5. The evaluation guideline used to interpret narrative water quality standards is adequate.

6. Data are numerical.

7. Standard methods were used.

8. Other water body information including age of the data were

considered.

Region 4: Marina del Rey Harbor-Back Basin DDT

An inadequate of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 4: Marina del Rey Harbor-Back Basin PCBs

Water Body Marina del Rey Harbor-Back Basin

Stressor/Media/Beneficial Use PCBs/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

BPTCP, TSMP

Linkage between measurement endpoint

and benefical use or standard

PCB ERM/PELs are linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

ERM-PELs are applicable to Aquatic Life.

Water Body-specific Information Data 5-9 years old, collected at site, data collected in different years and

seasons.

Data used to assess water quality 18 sediment samples, 7 samples exceeding samples.

Spatial representation Samples were collected spatially.

Temporal representation Summer-winter 1993, summer 1996, fall-winter 1997.

Data type Numerical data.

Use of standard method BPTCP and TSMP

Potential Source(s) of Pollutant Historical use of pesticides, stormwater runoff/aerial deposition from urban

areas.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or

causes the problem.

Region 4: Marina del Rey Harbor-Back Basin Zinc

Water Body Marina del Rey Harbor-Back Basin

Stressor/Media/Beneficial Use Zinc/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

N/A

Linkage between measurement endpoint

and benefical use or standard

EDLs are not linked to Beneficial Uses.

Utility of measure for judging if standards or uses are not attained

EDLs are not applicable to Beneficial Uses.

 $\textbf{Water Body-specific Information} \qquad \qquad N/A$

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation Delist because EDLs do not represent a valid assessment guidelines.

SWRCB Staff Recommendation In the review of the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret narrative water

quality standards.

Region 4: Marina Del Rey Harbor-Back Basin Unknown

Water Body Marina Del Rey Harbor-Back Basin

Stressor/Media/Beneficial Use Unknown (Benthic Community Degradation)/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

BPTCP.

Linkage between measurement endpoint

and benefical use or standard

Benthic Community Degradation is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

Data was not presented.

Water Body-specific Information

Data was not presented.

Data used to assess water quality

Data was not presented.

Spatial representation

Data was not presented.

Data was not presented.

Data type

Temporal representation

Data was not presented.

Use of standard method BPTCP.

Potential Source(s) of Pollutant

Unknown.

Alternative Enforceable Program

RWQCB Recommendation

Delist because benthic infauna is only moderately degraded.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because the information indicates that the benthic community infauna is moderately degraded.

Region 4: Marina del Rey Harbor-Back Basin TBT

Water Body Marina del Rey Harbor-Back Basin

Stressor/Media/Beneficial Use TBT/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

N/A

Linkage between measurement endpoint

and benefical use or standard

EDLs are not linked to Beneficial Uses.

Utility of measure for judging if standards or uses are not attained

EDLs are not applicable to Beneficial Uses.

 $\textbf{Water Body-specific Information} \qquad \qquad N/A$

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation Delist because EDLs no longer represent a valid assessment guideline.

SWRCB Staff Recommendation In the review of the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret narrative water

quality standards.

Region 4: McCoy Canyon Creek Total Selenium

McCoy Canyon Creek Water Body

Stressor/Media/Beneficial Use Total Selenium/Water/Aquatic Life, Warm Freshwater and Wildlife Habitat

Data quality assessment. Extent to which data quality requirements met. City of Calabasas

Linkage between measurement endpoint

and benefical use or standard

Total Selenium CTR is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained CTR is applicable to Aquatic Life

Water Body-specific Information

Data 1-2 years old, samples collected during multiple seasons.

Data used to assess water quality 33 water samples, 32 samples exceeding.

Samples were collected spatially along the creek. Spatial representation

Spring, fall, winter. **Temporal representation** Data type Numerical data.

Use of standard method City of Calabasas.

Potential Source(s) of Pollutant Natural and urban sources.

Alternative Enforceable Program

RWOCB Recommendation List.

SWRCB Staff Recommendation

In the review of the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of season, storm events, and age of the data were considered.

Most of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: McCoy Canyon Creek **Nitrate**

McCoy Canyon Creek Water Body

Stressor/Media/Beneficial Use Nitrate/Water/Groundwater Recharge

Data quality assessment. Extent to which data quality requirements met. City of Calabasas

Linkage between measurement endpoint

and benefical use or standard

Nitrate WQO is linked to Groundwater Recharge.

Utility of measure for judging if standards or uses are not attained WQO is applicable to Groundwater Recharge.

Water Body-specific Information Data 1-2 years, data measured at site, sample during multiple seasons.

Data used to assess water quality 51 water samples, 19 samples exceeding.

Samples were collected spatially along the creek. Spatial representation

Spring, summer, fall, winter. **Temporal representation**

Data type Numerical data.

Use of standard method City of Calabasas

Potential Source(s) of Pollutant Nonpoint sources

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of season, storm events, and age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: McCoy Canyon Creek **Fecal Coliform**

McCoy Canyon Creek Water Body

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met. City of Calabasas

Linkage between measurement endpoint

and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained WQO is applicable to REC-1.

Water Body-specific Information Data 1-3 years old, data measured at site, all season samples.

Data used to assess water quality 56 bacterial samples, 38 samples exceeding.

Samples were collected spatially along the creek. Spatial representation

Temporal representation Spring, summer, fall, winter.

Data type Numerical data.

Use of standard method City of Calabasas.

Potential Source(s) of Pollutant Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of season, storm events, and age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: McCoy Canyon Creek Nitrate as Nitrogen

McCoy Canyon Creek Water Body

Stressor/Media/Beneficial Use Nitrate as Nitrogen/Water/Groundwater Recharge

Data quality assessment. Extent to which data quality requirements met. Unknown

Linkage between measurement endpoint

and benefical use or standard

Maximum Contamination Levels (MCL) are linked Groundwater Recharge.

Utility of measure for judging if standards or uses are not attained

Data used to assess water quality

MCL are applicable to Groundwater Recharge.

Water Body-specific Information Data 1-2 years, data measured at site, sample during multiple seasons.

51 water samples, 19 samples exceeding.

Samples were collected spatially along the creek. Spatial representation

Spring-summer-fall 2000 and winter-spring 2001. **Temporal representation**

Data type Numerical data.

Use of standard method City of Calabasas.

Potential Source(s) of Pollutant Runoff from natural and urban sources.

Alternative Enforceable Program

RWQCB Recommendation List due to a greater than 10% exceedance of nitrate as nitrogen water quality objectives.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of season, storm events, and age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: McGrath Beach **Beach Closures**

McGrath Beach Water Body

Stressor/Media/Beneficial Use Beach Closures/Water/REC-1

Data quality assessment. Extent to which data quality requirements met. Ventura County Environmental Health Division QA/QC.

Linkage between measurement endpoint

and benefical use or standard

Beach Closures can be linked to REC-1.

Utility of measure for judging if standards or uses are not attained Beach Closures and Postings are poor measures of whether water quality standards are exceeded, because in many circumstances postings and closures are precautionary measures.

Water Body-specific Information Data 2 to 3 years old.

No Beach Closures recorded in the last three years. Data used to assess water quality

Spatial representation Unknown. Temporal representation Unknown.

Data type Unknown.

Use of standard method Standard approaches were used.

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation Delist.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Other water body- or site-specific information including the age of the data were considered.

All of the water quality measurements did not exceed the beach closure guidelines in the last three years. Staff confidence that standards are not exceeded is moderate.

Region 4: McGrath Lake **PCBs**

McGrath Lake Water Body

Stressor/Media/Beneficial Use PCBs/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. BPTCP and DFG

Linkage between measurement endpoint

and benefical use or standard

Sediment toxicity and ERM-PEL are linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained ERM-PELs are applicable to Aquatic Life.

Water Body-specific Information Data 4-9 years old, environmental data measured at site/waterbody.

Data used to assess water quality 13 sediment samples, 7 samples exceeding. Sediment toxicity was

observed associated with these chemistry measurements.

Spatial representation Samples were collected spatially.

Temporal representation 4 different events in 4 different years

Data type Numerical data.

Use of standard method BPTCP methods.

Potential Source(s) of Pollutant Historical use of pesticides and lubricants, stormwater runoff/aerial

deposition from agriculture fields.

Alternative Enforceable Program The Consolidated Toxic Hot Spots Cleanup Plan describes how the

RWQCB will work with the McGrath State Beach Area Trustee Council to address cleanup of this site. While the planning has progressed, no remediation of the site has occurred. No responsible parties have been

identified.

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

> documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or

causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses are applicable and apply to this water body.
- 4. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 5. Data are numerical.
- 6. Standard methods were used.

An adequate amount of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 4: McGrath Lake Benthic Community Degradation

McGrath Lake Water Body

Stressor/Media/Beneficial Use Benthic Community Degradation/Sediment/Aquatic life

Data quality assessment. Extent to which data quality requirements met. **BPTCP**

Linkage between measurement endpoint

and benefical use or standard

A pollutant was not identified. Benthic community degradation is linked to

Aquatic Life.

Utility of measure for judging if standards or uses are not attained Benthic community impacts are applicable to Aquatic Life.

Water Body-specific Information Samples taken at site. Data 4 years old.

Data used to assess water quality Benthic community impacts were identified as a pollutant rather than a

> condition of the water body. Pollutants such a PCBs and dieldrin that are recommended for listing cause or contribute to the observed benthic

impacts.

Spatial representation Unknown.

Temporal representation Samples from one year.

Data type Numerical data.

Use of standard method BPTCP methods.

Potential Source(s) of Pollutant Historical use of pesticides and lubricants, stormwater runoff an aerial

deposition from urban and agricultural areas.

Alternative Enforceable Program

RWQCB Recommendation List due to benthic community degradation.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because the identified parameter is a condition for a water body and not a pollutant.

Region 4: McGrath Lake Dieldrin

Water Body McGrath Lake

Stressor/Media/Beneficial Use Dieldrin/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

BPTCP and DFG.

Linkage between measurement endpoint and benefical use or standard

Benthic community effects, sediment toxicity, and ERM-PEL is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

ERM-PELs are applicable to Aquatic Life.

Water Body-specific Information Data 4-9 years old, environmental data measured at site/waterbody.

Data used to assess water quality 13 sediment samples, 10 samples exceeding. Sediment toxicity was

observed.

Spatial representation Samples were collected spatially.

Temporal representation 4 different events in 4 different years.

Data type Numerical data.

Use of standard methodBPTCP methods.

Potential Source(s) of Pollutant Historical use of pesticides and lubricants, stormwater runoff/aerial

deposition from agriculture fields.

Alternative Enforceable Program

The Consolidated Toxic Hot Spots Cleanup Plan describes how the

RWQCB will work with the McGrath State Beach Area Trustee Council to address cleanup of this site. While the planning has progressed, no remediation of the site has occurred. No responsible parties have been

identified.

RWQCB Recommendation List due to exceedances of ERM/PELs.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or

causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses are applicable and apply to this water body.
- 4. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 5. Data are numerical.
- 6. Standard methods were used.

Region 4: McGrath Lake Dieldrin

An adequate amount of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 4: McGrath Lake Fecal Coliform

Water Body McGrath Lake

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Ventura Division of Environmental Health Services.

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to REC-1.

Water Body-specific InformationData 0.5 - 3 years old, samples measured from site.

Data used to assess water quality

29 bacteria samples, 6 sample exceeding the geometric mean of 200/100 mL. Included in the 29 bacteria samples, 16 samples were collected in

collected in the Spring of 2002. Five of the sixteen samples exceeded the

400 MPN/100 mL objective.

Spatial representation 5 sites.

Temporal representation Spring, Summer, and Fall 1999-2000.

Data type Numerical data.

Use of standard methodVentura Division of Environmental Health Services.

Potential Source(s) of Pollutant Agriculture, landfill runoff and natural sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the of age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 4: McGrath Lake Total Pesticides

Water Body	McGrath Lake
Stressor/Media/Beneficial Use	Total Pesticides/Sediment/Aquatic Life
Data quality assessment. Extent to which data quality requirements met.	N/A
Linkage between measurement endpoint and benefical use or standard	N/A
Utility of measure for judging if standards or uses are not attained	N/A
Water Body-specific Information	N/A
Data used to assess water quality	N/A
Spatial representation	N/A
Temporal representation	N/A
Data type	N/A
Use of standard method	N/A
Potential Source(s) of Pollutant	Historical use of pesticides and lubricants, stormwater runoff/aerial deposition from agriculture fields.
Alternative Enforceable Program	
RWQCB Recommendation	Delist because individual chemical can be listed for exceedances of ERM-PELs.
SWRCB Staff Recommendation	After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because chemicals can be listed individually.

Region 4: Ormond Beach - Arnold Road **Bacterial Indicators**

Ormond Beach - Arnold Road Water Body

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met. County Health Department

Linkage between measurement endpoint

and benefical use or standard

Bacterial Indicators are linked to REC-1.

Utility of measure for judging if standards or uses are not attained Data can be compared directly to Bacterial Indicator water quality standard and are applicable to REC-1.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 84 samples, 2 samples exceeding.

1 station: VC(44000). This station represents the beach 50 yards on either Spatial representation

side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program None.

Do not list. **RWQCB Recommendation**

SWRCB Staff Recommendation After reviewing the available data and information provided by the

RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

- This conclusion is based on the staff findings that: 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the effects of age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is high.

Region 4: Ormond Beach - J Street drain (50 yards south of drain) Bacterial Indicators

Water Body Ormond Beach - J Street drain (50 yards south of drain)

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

County Health Department.

Linkage between measurement endpoint and benefical use or standard

Bacterial Indicators linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Data can be compared directly to bacterial indicator water quality standards which are applicable to REC-1.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 99 samples, 13 samples exceeding.

Spatial representation 1 station: VC(42000). This station represents the beach 50 yards on either

side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information provided by the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 8. Other water body- or site-specific information including the effects of age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Ormond Beach - Oxnard Industrial drain (50 yards north of d + Bacterial Indicators

Water Body Ormond Beach - Oxnard Industrial drain (50 yards north of drain)

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

County Health Department

Linkage between measurement endpoint and benefical use or standard

Bacterial Indicators are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Data can be compared directly to bacterial indicator water quality standards and are applicable to REC-1.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 96 samples, 18 samples exceeding.

Spatial representation 1 station: VC(43000). This station represents the beach 50 yards on either

side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information provided by the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the effects of age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Peck Road Park Lake Trash

Water Body	Peck Road Park Lake
Stressor/Media/Beneficial Use	Trash/Water/Aquatic Life, REC-2
Data quality assessment. Extent to which data quality requirements met.	N/A
Linkage between measurement endpoint and benefical use or standard	N/A
Utility of measure for judging if standards or uses are not attained	N/A
Water Body-specific Information	N/A
Data used to assess water quality	N/A
Spatial representation	N/A
Temporal representation	N/A
Data type	N/A
Use of standard method	N/A
Potential Source(s) of Pollutant	N/A
Alternative Enforceable Program	N/A

RWQCB Recommendation TMDL Completed.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the TMDLs Completed List because a TMDL has been developed for the water body-pollutant combination. The TMDL has been approved by USEPA.

Region 4: Peninsula Beach (Beach area within two rock jetties) Bacterial Indicators

Water Body Peninsula Beach (Beach area within two rock jetties)

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

County Health Department.

Linkage between measurement endpoint and benefical use or standard

Bacterial Indicators linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Data can be compared directly to bacterial indicator water quality standards.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 102 samples, 19 samples exceeding.

Spatial representation 1 station: VC(23000). This station represents the beach 50 yards on either

side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of PollutantPoint and nonpoint sources.

Alternative Enforceable Program None.

RWQCB Recommendation List.

SWRCB Staff Recommendation After reviewing the available data and information provided by the

RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes

to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the effects of age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Piru Creek (Tributary to Santa Clara River Reach 4) pН

Piru Creek (Tributary to Santa Clara River Reach 4) Water Body

Stressor/Media/Beneficial Use pH/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. United Water Conservation District.

Linkage between measurement endpoint and benefical use or standard

pH WQO is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained WQO is applicable to Aquatic Life.

Water Body-specific Information Data 2-5 years old, samples collected at site.

Data used to assess water quality 24 water samples, 4 samples exceeding.

Samples representative of the Reach. Spatial representation

Quarterly sampling events. **Temporal representation**

Data type Numerical data.

Use of standard method United Water Conservation District.

Potential Source(s) of Pollutant Nonpoint sources and Conservation Discharge Releases.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of natural sources, season and age of the data were considered.

An adequate amount of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is low.

Region 4: Pole Creek (tributary to Santa Clara River R3) Sulfate

Water Body Pole Creek (tributary to Santa Clara River R3)

Stressor/Media/Beneficial Use Sulfate/Water/Agriculture

Data quality assessment. Extent to which data quality requirements met.

United Water Conservation District

Linkage between measurement endpoint and benefical use or standard

Sulfate WQO is linked to Agriculture.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Agriculture.

Water Body-specific Information Data 2-5 years old, samples collected at site.

Data used to assess water quality 12 water samples, 11 sample exceeding.

Spatial representation Limited.

Temporal representation Less than quarterly sampling.

Data type Numerical data.

Use of standard methodUnited Water Conservation District

Potential Source(s) of Pollutant Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List due to exceedance in WQO.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited limited spatial and sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of age of the data were considered.

Most of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Pole Creek (tributary to Santa Clara River R3) TDS

Water Body Pole Creek (tributary to Santa Clara River R3)

Stressor/Media/Beneficial Use TDS/Water/Agriculture

Data quality assessment. Extent to which data quality requirements met.

United Water Conservation District

Linkage between measurement endpoint and benefical use or standard

TDS WQO is linked to Agriculture.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Agriculture.

Water Body-specific Information Data 2-5 years old, samples collected at site.

Data used to assess water quality 12 water samples, 11 sample exceeding.

Spatial representation Limited.

Temporal representation Less than quarterly sampling.

Data type Numerical data.

Use of standard methodUnited Water Conservation District.

Potential Source(s) of Pollutant Nonpoint sources.

Alternative Enforceable Program

RWOCB Recommendation List due to exceedances in WOO.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited limited spatial and sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of age of the data were considered.

Most of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Port Hueneme Harbor (back basins) TBT

Water Body Port Hueneme Harbor (back basins)

Stressor/Media/Beneficial Use TBT/Tissue and Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

BPTCP and Army Corp of Engineers

Linkage between measurement endpoint and benefical use or standard

Sediment chemistry linked to Aquatic Life, however linkage of tissue is

unknown.

Utility of measure for judging if standards or uses are not attained

Tissue guidelines do not exist for assessment for TBT.

Water Body-specific Information Data 1- 6 years old, collected at site, one sample event.

Data used to assess water quality 14 sediment samples in 1996, 20 sediment samples in 2001. Data on the

number of samples exceeding was not presented.

Spatial representation Samples were collected spatially.

Temporal representation 2 years of sampling. **Data type** Numerical data.

Use of standard method BPTCP and US Army Corps of Engineer methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation Delist because guideline for TBT in tissue do not exist and delist TBT in

sediment because levels were low.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because there was not a foundation for listing. The tissue measurements could not be evaluated. Assessment guidelines for TBT do not exist. A TBT level in

sediment were low.

Region 4: Port Hueneme Harbor (back basins) PAHs

Water Body Port Hueneme Harbor (back basins)

Stressor/Media/Beneficial Use PAHs/Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

BPTCP and Army Corp of Engineers

Linkage between measurement endpoint and benefical use or standard

Sediment chemistry is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

Measurement based on Army Corp of Engineers, PAH were at a low levels.

Water Body-specific InformationData 1- 6 years old, collected at site, one sample event.

Data used to assess water quality 14 sediment samples in 1996, 20 sediment samples in 2001, 0 samples

exceeding.

Spatial representation Samples were collected spatially.

Temporal representation 2 years of sampling.

Data type Numerical.

Use of standard method BPTCP method, US Army Corps of Engineers unknown.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB RecommendationDelist because PAHs appear to be low throughout most of the back basin

area based on Army Corps of Engineers data.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical.
- 7. Standard methods were used.
- 8. Other water body information including the age of the data was considered.

None of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is high.

Region 4: Port Hueneme Harbor (back basins) Zinc

Water Body Port Hueneme Harbor (back basins)

Stressor/Media/Beneficial Use Zinc/Tissue and Sediment/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

BPTCP and Army Corp of Engineer

Linkage between measurement endpoint

and benefical use or standard

Sediment chemistry linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

Tissue guidelines do not exist for assessment for zinc.

Water Body-specific InformationData 1- 6 years old, collected at site, one sample event.

Data used to assess water quality 14 sediment samples in 1996, 20 sediment samples in 2001, 0 samples

exceeding.

Spatial representation Samples were collected spatially.

Temporal representation 2 years of sampling.

Data type Numerical data.

Use of standard methodBPTCP and US Army Corps of Engineers methods.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB Recommendation Delist because guideline for zinc in tissue do not exist and delist zinc in

sediment because levels were low.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because there was not a foundation for listing. The tissue measurements could not be evaluated. Assessment guidelines for zinc in tissue do not exist. Also zinc

levels in sediment were low.

Region 4: Promenade Park - Figueroa Street **Bacterial Indicators**

Promenade Park - Figueroa Street

Water Body

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met. County Health Department

Linkage between measurement endpoint

and benefical use or standard

Bacterial Indicators are linked to REC-1.

Utility of measure for judging if standards or uses are not attained Data can be compared directly to bacterial indicator water quality standards which are applicable to REC-1.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 97 samples, 11 samples exceeding.

1 station: VC(14000). This station represents the beach 50 yards on either Spatial representation

side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation Do not list.

SWRCB Staff Recommendation

After reviewing the available data and information provided by the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is moderate.

Region 4: Promenade Park - Holiday Inn (south of drain at California + Bacterial Indicators

Water Body Promenade Park - Holiday Inn (south of drain at California Street)

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

County Health Department

Linkage between measurement endpoint and benefical use or standard

Bacterial Indicators are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Data can be compared directly to bacterial indicator water quality standards, which are applicable to Aquatic Life.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 105 samples, 19 samples exceeding.

Spatial representation 1 station: VC(17000). This station represents the beach 50 yards on either

side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information provided by the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the effects of age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 4: Promenade Park - Oak Street **Bacterial Indicators**

Promenade Park - Oak Street Water Body

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met. County Health Department.

Linkage between measurement endpoint

and benefical use or standard

Bacterial Indicators are linked to REC-1.

Utility of measure for judging if standards or uses are not attained Data can be compared directly to bacterial indicator water quality standards, which are applicable to REC-1.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 99 samples, 14 samples exceeding.

1 station: VC(16000). This station represents the beach 50 yards on either Spatial representation

side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information provided by the RWOCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 8. Other water body- or site-specific information including the effects of age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 4: Promenade Park - Redwood Apartments Bacterial Indicators

Water Body Promenade Park - Redwood Apartments

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

County Health Department

Linkage between measurement endpoint and benefical use or standard

Bacterial Indicators are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Data can be compared directly to bacterial indicator water quality standard, which are applicable to REC-1.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 94 samples, 14 samples exceeding.

Spatial representation 1 station: VC(15000). This station represents the beach 50 yards on either

side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information provided by the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 8. Other water body- or site-specific information including the effects of age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 4: Rincon Beach (150 yards south of creek mouth) Bacterial Indicators

Water Body Rincon Beach (150 yards south of creek mouth)

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

County Health Department

Linkage between measurement endpoint and benefical use or standard

Bacterial Indicators are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Data can be compared directly to bacterial indicator water quality standards, which are linked to REC-1.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 104 samples, 23 samples exceeding.

Spatial representation 1 station: VC(1050). This station represents the beach 50 yards on either

side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information provided by the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 8. Other water body- or site-specific information including the effects of age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Rincon Beach (at end of footpath) **Bacterial Indicators**

Rincon Beach (at end of footpath) Water Body

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

County Health Department

Linkage between measurement endpoint

and benefical use or standard

Bacterial Indicators are linked to REC-1.

Utility of measure for judging if standards or uses are not attained Data can be compared directly to bacterial indicator water quality standards, which are linked to REC-1.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 101 samples, 15 samples exceeding.

1 station: VC(1100). This station represents the beach 50 yards on either Spatial representation

side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information provided by the RWOCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 8. Other water body- or site-specific information including the effects of age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Rincon Beach-50 yards south of creek mouth Bacterial Indicators

Water Body Rincon Beach-50 yards south of creek mouth

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

County Health Department

Linkage between measurement endpoint and benefical use or standard

Bacterial Indicators are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Data can be compared directly to bacterial indicator water quality standards, which are linked to REC-1.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 107 samples, 26 samples exceeding.

Spatial representation 1 station: VC(1000). This station represents the beach 50 yards on either

side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information provided by the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 8. Other water body- or site-specific information including the effects of age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Rio de Santa Clara/Oxnard Drain #3 Chem A

Water Body Rio de Santa Clara/Oxnard Drain #3

Stressor/Media/Beneficial Use Chem A/Tissue/Fish Consumption

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint

and benefical use or standard

Chem A MTRLs are linked to Fish Consumption..

Utility of measure for judging if standards or uses are not attained

MTRLs are applicable to Fish Consumption.

Water Body-specific Information No data was presented.

No data was presented.

Data used to assess water quality

No data was presented.

Temporal representation

Spatial representation

No data was presented.

Data type

Unknown

Use of standard method

No data was presented.

Potential Source(s) of Pollutant

Historical use of pesticides and lubricants, storm water runoff and aerial

deposition from agricultural fields.

Alternative Enforceable Program

RWQCB Recommendation

Delist because listing was based on NAS guidelines, which are outdated. Individual chemicals can be listing for exceedances in MTRLs as

appropriate.

SWRCB Staff Recommendation

After reviewing the available data and information provided by the RWQCB documentation for this recommendation, SWRCB staff concluded that the water body should not be removed from the section 303(d) list because the NAS guidelines are not outdated and remain a valid assessment tools. This guideline should continue to be used until an alternative value is available.

Region 4: Rio Hondo Reach 1 **Ammonia**

Rio Hondo Reach 1 Water Body

Stressor/Media/Beneficial Use Ammonia/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

There was not new data assessed for this water body-pollution combination.

Linkage between measurement endpoint

and benefical use or standard

N/A

Utility of measure for judging if standards or uses are not attained N/A

Water Body-specific Information

N/A

Data used to assess water quality

No new data were submitted that indicates that water quality standards are

N/A **Spatial representation**

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant Point sources

Alternative Enforceable Program

An alternative enforceable program is in place that will address ammonia

water quality standards exceedances for this reach.

In June 1995, the seven water reclamation plants discharging in the San Gabriel River and Santa Clara River watersheds received NPDES permits containing requirements regarding compliance with the Basin Plan water quality objectives for ammonia. In accordance with these permits, the Los Angeles County Sanitation Districts have been pursuing the addition of nitrification and denitrification facilities at each of these plants to comply with the ammonia objectives. By June 2003, it is expected that these new facilities will be operational and ammonia will be drastically reduced.

Research facility operation shows that the monthly average ammonia concentration fully complies with the chronic ammonia objective that are expected to be applicable in June 2003.

It is probable that the majority of ammonia discharged to this water body was contributed by POTWs. Information in the record indicates that the majority (over 95%) of the ammonia in the Los Angeles River was contributed by POTWs. It is probable that the contribution in the San Gabriel River watershed is dominated by contributions from POTWs as well. Generally, concentrations of ammonia upstream of the treatment plants is much lower than downstream concentrations (up to an order of magnitude difference).

RWOCB Recommendation

None.

Region 4: Rio Hondo Reach 1 Ammonia

SWRCB Staff Recommendation

After reviewing the available data and information for this recommendation, SWRCB staff conclude that the water body should be placed on the Enforceable Program list because applicable water quality standards are exceeded and another program will address the problem.

Region 4: Rio Hondo Reach 2 **Ammonia**

Rio Hondo Reach 2

Water Body

Stressor/Media/Beneficial Use Ammonia/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. There was not new data assessed for this water body-pollution combination.

Linkage between measurement endpoint

and benefical use or standard

N/A

Utility of measure for judging if standards or uses are not attained N/A

Water Body-specific Information

N/A

Data used to assess water quality

No new data were submitted that indicates that water quality standards are

N/A **Spatial representation**

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant Point sources

Alternative Enforceable Program

An alternative enforceable program is in place that will address ammonia water quality standards exceedances for this reach.

In June 1995, the seven water reclamation plants discharging in the San Gabriel River and Santa Clara River watersheds received NPDES permits containing requirements regarding compliance with the Basin Plan water quality objectives for ammonia. In accordance with these permits, the Los Angeles County Sanitation Districts have been pursuing the addition of nitrification and denitrification facilities at each of these plants to comply with the ammonia objectives. By June 2003, it is expected that these new facilities will be operational and ammonia will be drastically reduced.

Research facility operation shows that the monthly average ammonia concentration fully complies with the chronic ammonia objective that are expected to be applicable in June 2003.

It is probable that the majority of ammonia discharged to this water body was contributed by POTWs. Information in the record indicates that the majority (over 95%) of the ammonia in the Los Angeles River was contributed by POTWs. It is probable that the contribution in the San Gabriel River watershed is dominated by contributions from POTWs as well. Generally, concentrations of ammonia upstream of the treatment plants is much lower than downstream concentrations (up to an order of magnitude difference).

RWOCB Recommendation None.

Region 4: Rio Hondo Reach 2 Ammonia

SWRCB Staff Recommendation

After reviewing the available data and information for this recommendation, SWRCB staff conclude that the water body should be placed on the Enforceable Program list because applicable water quality standards are exceeded and another program will address the problem.

Region 4: San Antonio Creek (Tributary to Ventura River Reach 4) Total Nitrogen

Water Body San Antonio Creek (Tributary to Ventura River Reach 4)

Stressor/Media/Beneficial Use Total nitrogen/Water/WQO

Data quality assessment. Extent to which data quality requirements met.

Ojai Valley Wastewater Treatment Plant.

Linkage between measurement endpoint and benefical use or standard

Total Nitrogen WQO is applicable.

Utility of measure for judging if standards or uses are not attained

Exceedance of Basin Plan WQO of 5 mg/L for Nitrogen is applicable.

Water Body-specific Information Data is 2-6 year old, data measured in the waterbody, samples collected

different in seasons and years.

Data used to assess water quality 23 water samples, 4 samples exceeding.

Spatial representation 2 sites.

Temporal representation Winter 1998 - Summer 2000.

Data type Numerical data.

Use of standard methodOjai Valley Wastewater Treatment Plant

Potential Source(s) of Pollutant Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List due to greater than 10% exceedance of the nitrogen objective.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of season and age of the data were considered.

An adequate amount of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 4: San Buenaventura Beach (Kalorama Street and Sanjon testing + **Bacterial Indicators**

San Buenaventura Beach (Kalorama Street and Sanjon testing sites) Water Body

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met. County Health Department.

Linkage between measurement endpoint and benefical use or standard

Bacterial Indicators are linked to REC-1.

Utility of measure for judging if standards or uses are not attained Data can be compared directly to bacterial indicator water quality standards, which are linked to REC-1.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 101 samples, 14 samples exceeding.

1 station: VC(18000). This station represents the beach 50 yards on either Spatial representation

side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information provided by the RWOCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the effects of age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 4: San Buenaventura Beach (south of drain at Dover Lane) Bacterial Indicators

Water Body San Buenaventura Beach (south of drain at Dover Lane)

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

County Health Department

Linkage between measurement endpoint and benefical use or standard

Bacterial indicators are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Data can be compared directly to bacterial indicator water quality standards, which are linked to REC-1.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 100 samples, 8 samples exceeding.

Spatial representation 1 station: VC(20000). This station represents the beach 50 yards on either

side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation Do not list.

SWRCB Staff Recommendation

After reviewing the available data and information provided by the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the effects of age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is high.

Region 4: San Buenaventura Beach (south of drain at San Jon Road) Bacterial Indicators

Water Body San Buenaventura Beach (south of drain at San Jon Road)

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

County Health Department

Linkage between measurement endpoint and benefical use or standard

Bacterial Indicators are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Data can be compared directly to bacterial indicator water quality standards, which are linked to REC-1.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 103 samples, 20 samples exceeding.

Spatial representation 1 station: VC(19000). This station represents the beach 50 yards on either

side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information provided by the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 8. Other water body- or site-specific information including the effects of age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: San Buenaventura Beach (south of drain at Weymouth Lane) Bacterial Indicators

Water Body San Buenaventura Beach (south of drain at Weymouth Lane)

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

County Health Department

Linkage between measurement endpoint and benefical use or standard

Bacterial Indicators are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Data can be compared directly to bacterial indicator water quality standards, which are linked to REC-1.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 97 samples, 2 samples exceeding.

Spatial representation 1 station: VC(20000). This station represents the beach 50 yards on either

side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation Do not list.

SWRCB Staff Recommendation After reviewing the available data and information provided by the

RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the effects of age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is high.

Region 4: San Gabriel River East Fork Trash

Water Body	San Gabriel River East Fork
Stressor/Media/Beneficial Use	Trash/Water/Aquatic Life, REC-2
Data quality assessment. Extent to which data quality requirements met.	N/A
Linkage between measurement endpoint and benefical use or standard	N/A
Utility of measure for judging if standards or uses are not attained	N/A
Water Body-specific Information	N/A
Data used to assess water quality	N/A
Spatial representation	N/A
Temporal representation	N/A
Data type	N/A
Use of standard method	N/A
Potential Source(s) of Pollutant	N/A
Alternative Enforceable Program	N/A

RWQCB Recommendation TMDL Completed.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the TMDLs Completed List because a TMDL has been developed for the water body-pollutant combination. The TMDL has been approved by USEPA.

Region 4: San Gabriel River Estuary Arsenic

Water Body San Gabriel River Estuary

Stressor/Media/Beneficial Use Arsenic/Tissue/Fish Consumption

Data quality assessment. Extent to which data quality requirements met.

QAPP

Linkage between measurement endpoint

and benefical use or standard

Arsenic MTRLs are linked to Fish Consumption.

Utility of measure for judging if standards or uses are not attained

MTRLs guidelines for arsenic do not exist.

 $\textbf{Water Body-specific Information} \qquad \qquad N/A$

Data used to assess water quality

Not applicable

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program N/A

RWQCB Recommendation Delist because there is no longer a MTRL for arsenic.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because MTRL

for arsenic in tissue do not exist.

Region 4: San Gabriel River Estuary Trash

Water Body San Gabriel River Estuary

Stressor/Media/Beneficial Use Trash/Water/REC-1, REC-2 and Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Quality assurance information was not provided.

Linkage between measurement endpoint and benefical use or standard

Trash is linked to Aquatic Life and REC-2.

Utility of measure for judging if standards or uses are not attained

Photographs can indicate gross impacts on beneficial uses and whether standards have been exceeded. Measurements of the amounts of trash can provide a relative measure of the potential for nuisance.

Water Body-specific Information

Photographs of conditions in the estuary were provided. Data on beach and riverbed debris removal were also submitted.

Data used to assess water quality

Photographic evidence of the accumulation of trash was provided in the vicinity of the confluence of Coyote Creek with the San Gabriel River Estuary. Nineteen photographs were submitted depicting locations along the River and Estuary. The trash included plastic bottles, styrofoam cups, paper wrappers, wood debris, shopping carts, shoes, and other unidentifiable debris.

Summary of Beach Debris Removal January-December 2001 572.43 tons January-June 2002 16 tons

Spatial representation

Photographs were taken at two locations. Beach cleanup was conducted at Seal Beach and in the riverbed. It is unknown what percentage of the cleanup volume is from the riverbed.

Temporal representation

Photographs taken on three dates: 10/29/2000, 11/04/2000, and 11/05/2000. Monthly volunteer trash removal was performed between January 2001 and June 2002.

Data type Numerical and Non-numerical data.

Use of standard method Unknown.

Potential Source(s) of PollutantProbably storm water discharge.

Alternative Enforceable Program

The storm water permit could address this problem but likely does not have

the enforceable provisions to do so now.

RWQCB Recommendation List because of non-attainment of the narrative objective for floating and

settleable materials objective described in the Basin Plan.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the Monitoring List because the data are inadequate to determine if applicable water quality standards are exceeded.

This conclusion is based on the staff findings that:

Region 4: San Gabriel River Estuary Trash

- 1. The data is considered to be of unknown quality.
- 2. The data exhibited insufficient spatial and temporal coverage.

An inadequate amount of the measurements exceeded the water quality standard. The staff confidence that standards were exceeded is low.

Region 4: San Gabriel River Estuary Ammonia as Nitrogen

Water Body San Gabriel River Estuary

Stressor/Media/Beneficial Use Ammonia as Nitrogen/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Los Angeles County Sanitation District as part of the receiving water monitoring program for the San Jose Creek Water Reclamation Plant.

Linkage between measurement endpoint and benefical use or standard

Ammonia CTR and WQO is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

CTR and WQO are applicable Aquatic Life.

Water Body-specific Information Data 2-3 years old, data measure from site, samples taken different seasons

and years.

Data used to assess water quality 117 water samples, 34 exceeding samples.

Spatial representation 3 sites.

Temporal representation Summer 1997, fall 1998, spring 2000.

Data type Numerical data.

Use of standard method Los Angeles County Sanitation District as part of the receiving water

monitoring program for the San Jose Creek Water Reclamation plan.

Potential Source(s) of Pollutant Point sources.

Alternative Enforceable Program

An alternative enforceable program is in place that will address ammonia

water quality standards exceedances for this reach.

In June 1995, the seven water reclamation plants discharging in the San Gabriel River and Santa Clara River watersheds received NPDES permits containing requirements regarding compliance with the Basin Plan water quality objectives for ammonia. In accordance with these permits, the Los Angeles County Sanitation Districts have been pursuing the addition of nitrification and denitrification facilities at each of these plants to comply with the ammonia objectives. By June 2003, it is expected that these new facilities will be operational and ammonia will be drastically reduced.

Research facility operation shows that the monthly average ammonia concentration fully complies with the chronic ammonia objective that are expected to be applicable in June 2003.

It is probable that the majority of ammonia discharged to this water body was contributed by POTWs. Information in the record indicates that the majority (over 95%) of the ammonia in the Los Angeles River was contributed by POTWs. It is probable that the contribution in the San Gabriel River watershed is dominated by contributions from POTWs as well. Generally, concentrations of ammonia upstream of the treatment plants is much lower than downstream concentrations (up to an order of

Region 4: San Gabriel River Estuary Ammonia as Nitrogen

magnitude difference).

RWQCB Recommendation

List due to non attainment of the ammonia aquatic life chronic criteria.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the Enforceable Program list because applicable water quality standards are exceeded and another program will address the problem.

Region 4: San Gabriel River Reach 1 **Ammonia**

San Gabriel River Reach 1

Water Body

Stressor/Media/Beneficial Use Ammonia/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. New data was not assessed for this water body-pollution combination.

Linkage between measurement endpoint and benefical use or standard

N/A

Utility of measure for judging if standards or uses are not attained N/A

Water Body-specific Information

N/A

Data used to assess water quality

No new data were submitted that indicates that water quality standards are

N/A **Spatial representation**

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant Point sources.

Alternative Enforceable Program

An alternative enforceable program is in place that will address ammonia water quality standards exceedances for this reach.

In June 1995, the seven water reclamation plants discharging in the San Gabriel River and Santa Clara River watersheds received NPDES permits containing requirements regarding compliance with the Basin Plan water quality objectives for ammonia. In accordance with these permits, the Los Angeles County Sanitation Districts have been pursuing the addition of nitrification and denitrification facilities at each of these plants to comply with the ammonia objectives. By June 2003, it is expected that these new facilities will be operational and ammonia will be drastically reduced.

Research facility operation shows that the monthly average ammonia concentration fully complies with the chronic ammonia objective that are expected to be applicable in June 2003.

It is probable that the majority of ammonia discharged to this water body was contributed by POTWs. Information in the record indicates that the majority (over 95%) of the ammonia in the Los Angeles River was contributed by POTWs. It is probable that the contribution in the San Gabriel River watershed is dominated by contributions from POTWs as well. Generally, concentrations of ammonia upstream of the treatment plants is much lower than downstream concentrations (up to an order of magnitude difference).

RWOCB Recommendation

None.

Region 4: San Gabriel River Reach 1 Ammonia

SWRCB Staff Recommendation

After reviewing the available data and information for this recommendation, SWRCB staff conclude that the water body should be placed on the Enforceable Program list because applicable water quality standards are exceeded and another program will address the problem.

Region 4: San Gabriel River Reach 1 Toxicity

Water Body San Gabriel River Reach 1

Stressor/Media/Beneficial Use Toxicity/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Data submitted in the 2000 NPDES Annual Monitoring Reports of the

Long Beach and Valencia Water Reclamation Plants.

Linkage between measurement endpoint and benefical use or standard

and benefical use of standard

N/A

Utility of measure for judging if standards or uses are not attained

N/A

Water Body-specific Information

Receiving water stations downstream of the Long Beach WRP on Coyote

Creek in 1999-2000.

Data used to assess water quality

Chronic toxicity has been detected at receiving water stations downstream of the Long Beach WRP on Coyote Creek in 1999-2000 and downstream of the Valencia WRP on the Santa Clara River during 2000. Toxicity identification evaluations have been performed using zeolite filtration to control ammonia toxicity. The test results indicated ammonia was likely

the principal cause of toxicity.

Spatial representation Receiving water stations downstream of the Long Beach WRP on Coyote

Creek and downstream of the Valencia WRP on the Santa Clara River.

Temporal representation Toxicity identification evaluation completed: 1999-2000.

Data type Numerical data.

Use of standard method Unknown.

Potential Source(s) of PollutantPoint sources.

Alternative Enforceable Program

An alternative enforceable program is in place that will address ammonia water quality standards exceedances for this reach. If ammonia concentrations are reduced it is very likely that the observed toxicity will

be removed as well.

In June 1995, the seven water reclamation plants discharging in the San Gabriel River and Santa Clara River watersheds received NPDES permits containing requirements regarding compliance with the Basin Plan water quality objectives for ammonia. In accordance with these permits, the Los Angeles County Sanitation Districts have been pursuing the addition of nitrification and denitrification facilities at each of these plants to comply with the ammonia objectives. By June 2003, it is expected that these new facilities will be operational and ammonia will be drastically reduced.

Research facility operation shows that the monthly average ammonia concentration fully complies with the chronic ammonia objective that are expected to be applicable in June 2003.

It is probable that the majority of ammonia discharged to this water body was contributed by POTWs.

Region 4: San Gabriel River Reach 1 Toxicity

RWQCB Recommendation None.

SWRCB Staff Recommendation After reviewing the available data and information for this

recommendation, SWRCB staff conclude that the water body should be placed on the Enforceable Program list because applicable water quality standards are exceeded and another program will address the problem.

Region 4: San Gabriel River Reach 2 **Ammonia**

San Gabriel River Reach 2

Water Body

Stressor/Media/Beneficial Use Ammonia/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. New data was not assessed for this water body-pollution combination.

Linkage between measurement endpoint and benefical use or standard

N/A

Utility of measure for judging if standards or uses are not attained N/A

Water Body-specific Information

N/A

Data used to assess water quality

No new data were submitted that indicates that water quality standards are

N/A **Spatial representation**

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant Point sources.

Alternative Enforceable Program

An alternative enforceable program is in place that will address ammonia water quality standards exceedances for this reach.

In June 1995, the seven water reclamation plants discharging in the San Gabriel River and Santa Clara River watersheds received NPDES permits containing requirements regarding compliance with the Basin Plan water quality objectives for ammonia. In accordance with these permits, the Los Angeles County Sanitation Districts have been pursuing the addition of nitrification and denitrification facilities at each of these plants to comply with the ammonia objectives. By June 2003, it is expected that these new facilities will be operational and ammonia will be drastically reduced.

Research facility operation shows that the monthly average ammonia concentration fully complies with the chronic ammonia objective that are expected to be applicable in June 2003.

It is probable that the majority of ammonia discharged to this water body was contributed by POTWs. Information in the record indicates that the majority (over 95%) of the ammonia in the Los Angeles River was contributed by POTWs. It is probable that the contribution in the San Gabriel River watershed is dominated by contributions from POTWs as well. Generally, concentrations of ammonia upstream of the treatment plants is much lower than downstream concentrations (up to an order of magnitude difference).

RWOCB Recommendation

None.

Region 4: San Gabriel River Reach 2 Ammonia

SWRCB Staff Recommendation

After reviewing the available data and information for this recommendation, SWRCB staff conclude that the water body should be placed on the Enforceable Program list because applicable water quality standards are exceeded and another program will address the problem.

Region 4: San Gabriel River Reach 3 Toxicity

Water Body San Gabriel River Reach 3

Stressor/Media/Beneficial Use Toxicity/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

Data submitted in the 2000 NPDES Annual Monitoring Reports of the

Long Beach and Valencia Water Reclamation Plants.

Linkage between measurement endpoint

and benefical use or standard

N/A

Utility of measure for judging if standards or uses are not attained

N/A

Water Body-specific Information

Receiving water stations downstream of the Long Beach WRP on Coyote

Creek in 1999-2000.

Data used to assess water quality

Chronic toxicity has been detected at receiving water stations downstream of the Long Beach WRP on Coyote Creek in 1999-2000 and downstream of the Valencia WRP on the Santa Clara River during 2000. Toxicity identification evaluations have been performed using zeolite filtration to control ammonia toxicity. The test results indicated ammonia was likely

the principal cause of toxicity.

Spatial representation Receiving water stations downstream of the Long Beach WRP on Coyote

Creek and downstream of the Valencia WRP on the Santa Clara River.

Temporal representation Toxicity identification evaluation completed: 1999-2000.

Data type Numerical data

Use of standard method Unknown.

Potential Source(s) of Pollutant Point sources.

Alternative Enforceable Program

An alternative enforceable program is in place that will address ammonia water quality standards exceedances for this reach. If ammonia concentrations are reduced it is very likely that the observed toxicity will

be removed as well.

In June 1995, the seven water reclamation plants discharging in the San Gabriel River and Santa Clara River watersheds received NPDES permits containing requirements regarding compliance with the Basin Plan water quality objectives for ammonia. In accordance with these permits, the Los Angeles County Sanitation Districts have been pursuing the addition of nitrification and denitrification facilities at each of these plants to comply with the ammonia objectives. By June 2003, it is expected that these new facilities will be operational and ammonia will be drastically reduced.

Research facility operation shows that the monthly average ammonia concentration fully complies with the chronic ammonia objective that are expected to be applicable in June 2003.

It is probable that the majority of ammonia discharged to this water body was contributed by POTWs.

Region 4: San Gabriel River Reach 3 Toxicity

RWQCB Recommendation	None.

SWRCB Staff Recommendation After reviewing the available data and information for this

recommendation, SWRCB staff conclude that the water body should be placed on the Enforceable Program list because applicable water quality standards are exceeded and another program will address the problem.

Region 4: San Gabriel River, Reach 2 Dissolved Zinc

San Gabriel River, Reach 2 Water Body

Stressor/Media/Beneficial Use Dissolved Zinc/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. Stormwater Monitoring Program

Linkage between measurement endpoint

and benefical use or standard

Dissolved Zinc CTR is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained CTR is applicable to Aquatic Life.

Water Body-specific Information Data 2-5 years old, data measured in waterbody, sample taken different

seasons and years.

Data used to assess water quality 26 water samples, 4 samples exceeding.

Spatial representation One site.

Temporal representation Fall, winter, and spring (1997-2000).

Data type Numerical data.

Use of standard method Stormwater Monitoring Program

Potential Source(s) of Pollutant Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List due to a greater than 10% exceedance of dissolved zinc recommended

water criteria for protection of fresh water aquatic life.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of season and age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 4: San Gabriel River, Reach 2 Dissolved Copper

San Gabriel River, Reach 2 Water Body

Stressor/Media/Beneficial Use Dissolved Copper/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. Stormwater Monitoring Program

Linkage between measurement endpoint

and benefical use or standard

Dissolved Copper CTR is linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained CTR is applicable to Aquatic Life.

Water Body-specific Information Data 2-5 years old, data measured in waterbody, sample taken different

seasons and years.

Data used to assess water quality 26 water samples, 7 samples exceeding.

1 site (S 14). **Spatial representation**

Temporal representation Fall, winter, spring (1997-2000).

Data type Numerical data.

Use of standard method Stormwater Monitoring Program.

Potential Source(s) of Pollutant Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List due to exceedances of the dissolved chronic criterion.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWOCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of season and age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: San Jose Creek Reach 1 (SG Confluence to Temple St.) Ammonia

Water Body San Jose Creek Reach 1 (SG Confluence to Temple St.)

Stressor/Media/Beneficial Use Ammonia/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

New data was not assessed for this water body-pollution combination.

Linkage between measurement endpoint and benefical use or standard

N/A

Utility of measure for judging if standards or uses are not attained

N/A

Water Body-specific Information

N/A

Data used to assess water quality

New data was not submitted that indicates that water quality standards are

met.

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant Point sources

Alternative Enforceable Program

An alternative enforceable program is in place that will address ammonia water quality standards exceedances for this Reach.

In June 1995, the seven water reclamation plants discharging in the San Gabriel River and Santa Clara River watersheds received NPDES permits containing requirements regarding compliance with the Basin Plan water quality objectives for ammonia. In accordance with these permits, the Los Angeles County Sanitation Districts have been pursuing the addition of nitrification and denitrification facilities at each of these plants to comply with the ammonia objectives. By June 2003, it is expected that these new facilities will be operational and ammonia will be drastically reduced.

Research facility operation shows that the monthly average ammonia concentration fully complies with the chronic ammonia objective that are expected to be applicable in June 2003.

It is probable that the majority of ammonia discharged to this water body was contributed by POTWs. Information in the record indicates that the majority (over 95%) of the ammonia in the Los Angeles River was contributed by POTWs. It is probable that the contribution in the San Gabriel River watershed is dominated by contributions from POTWs as well. Generally, concentrations of ammonia upstream of the treatment plants is much lower than downstream concentrations (up to an order of magnitude difference).

RWOCB Recommendation

None.

Region 4: San Jose Creek Reach 1 (SG Confluence to Temple St.) Ammonia

SWRCB Staff Recommendation

After reviewing the available data and information for this recommendation, SWRCB staff conclude that the water body should be placed on the Enforceable Program list because applicable water quality standards are exceeded and another program will address the problem.

Region 4: San Jose Creek Reach 2 (Temple St. to I 10 at White Ave.) Ammonia

Water Body San Jose Creek Reach 2 (Temple St. to I 10 at White Ave.)

Stressor/Media/Beneficial Use Ammonia/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

New data was not assessed for this water body-pollution combination.

Linkage between measurement endpoint and benefical use or standard

N/A

Utility of measure for judging if standards or uses are not attained

N/A

Water Body-specific Information

N/A

Data used to assess water quality

New data was not submitted that indicates that water quality standards are

met.

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant Point sources

Alternative Enforceable Program

An alternative enforceable program is in place that will address ammonia water quality standards exceedances for this Reach.

In June 1995, the seven water reclamation plants discharging in the San Gabriel River and Santa Clara River watersheds received NPDES permits containing requirements regarding compliance with the Basin Plan water quality objectives for ammonia. In accordance with these permits, the Los Angeles County Sanitation Districts have been pursuing the addition of nitrification and denitrification facilities at each of these plants to comply with the ammonia objectives. By June 2003, it is expected that these new facilities will be operational and ammonia will be drastically reduced.

Research facility operation shows that the monthly average ammonia concentration fully complies with the chronic ammonia objective that are expected to be applicable in June 2003.

It is probable that the majority of ammonia discharged to this water body was contributed by POTWs. Information in the record indicates that the majority (over 95%) of the ammonia in the Los Angeles River was contributed by POTWs. It is probable that the contribution in the San Gabriel River watershed is dominated by contributions from POTWs as well. Generally, concentrations of ammonia upstream of the treatment plants is much lower than downstream concentrations (up to an order of magnitude difference).

RWOCB Recommendation

None.

Region 4: San Jose Creek Reach 2 (Temple St. to I 10 at White Ave.) Ammonia

SWRCB Staff Recommendation

After reviewing the available data and information for this recommendation, SWRCB staff conclude that the water body should be placed on the Enforceable Program list because applicable water quality standards are exceeded and another program will address the problem.

Region 4: San Jose Creek, Reach 1 (SG Confluence to Temple St.) and R + pH

Water Body San Jose Creek, Reach 1 (SG Confluence to Temple St.) and Reach 2

(Temple St. to I 10 at White Ave.)

Stressor/Media/Beneficial Use pH/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

San Jose Creek Reclamation Facility

Linkage between measurement endpoint and benefical use or standard

pH WQO is linked to Aquatic Life. The Basin Plan states: pH of inland surface waters shall not be depressed below 6.5 or raised above 8.5 as a result of waste discharges. Ambient pH levels shall not be changed more than 0.5 units from natural conditions as a result of waste discharge.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Aquatic Life.

Water Body-specific Information Data 1-5 years old, data measure in waterbody, samples taken in different

years in summer and fall.

Data used to assess water quality 474 water samples, 180 samples exceeding. However, stations

downstream of the WWRP are in compliance with the Basin Plan water quality objective. Therefore, it does not appear that the elevated pH levels are a result of waste discharge. There is no storm water or nonpoint source

monitoring data available.

Spatial representation Upstream of San Jose Creek and nonpoint source discharge from urban

unoff.

Temporal representation Throughout 7/1997 and 9/2000.

Data type Numerical data.

Use of standard method San Jose Creek Reclamation Facility.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List due to pH exceedance above 8.5.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be excluded from the list because the linkage between the pH level and waste discharge cannot be determined.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. There is no linkage between exceedance in pH values and waste discharge.

Region 4: San Jose Creek, Reach 1 (SG Confluence to Temple St.) and R $+\ pH$

Compliance with the water quality standard cannot be determined because there are not data showing the elevated pH levels are a result of waste discharge. Staff confidence that standards were exceeded is low.

Region 4: Santa Clara River Estuary Chem A

Water Body Santa Clara River Estuary

Stressor/Media/Beneficial Use Chem A/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

BPTCP and TSMP

Linkage between measurement endpoint

and benefical use or standard

Chem A NAS guidelines are linked to Aquatic Life.

Utility of measure for judging if standards or uses are not attained

NAS guidelines are applicable to Aquatic Life.

Water Body-specific Information Data was not presented.

Data used to assess water quality Data was not presented.

Spatial representation Data was not presented.

Temporal representation Data was not presented.

Data type Data was not presented.

Use of standard methodTSMP and BPTCP methods.

Potential Source(s) of Pollutant Unknown

Alternative Enforceable Program

RWOCB Recommendation Originally recommended for delisting because listing was based on NAS

outdated guidelines. Reevaluation resulted in a recommendation to maintain on list because Chem A group are not outdated and are still valid

guidelines set by NAS to protect aquatic life.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concludes that the water body should not be removed from the section 303(d) list because applicable guidelines are not outdated and there is no new information to

support delisting.

Region 4: Santa Clara River Estuary Beach-Surfer's Knoll (area of Bea + Bacterial Indicators

Water Body Santa Clara River Estuary Beach-Surfer's Knoll (area of Beach adjacent to

parking lot)

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

County Health Department

Linkage between measurement endpoint

and benefical use or standard

Bacterial Indicators are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Data can be compared directly to bacterial indicator water quality standards, which is linked to REC-1.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 95 samples, 7 samples exceeding.

Spatial representation 1 station: VC(25000). This station represents the beach 50 yards on either

side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation Do not list.

SWRCB Staff Recommendation After reviewing the available data and information provided by the

RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because

applicable water quality standards are exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the effects of age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is moderate.

Region 4: Santa Clara River Estuary Beach/Surfer's Knoll Fecal Coliform

Water Body Santa Clara River Estuary Beach/Surfer's Knoll

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Ventura Division of Environmental Health Services

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform Ocean Plan standard is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Ocean Plan WQO is applicable to REC-1.

Water Body-specific Information Data 2-4 years old, samples collected at site, collected during all seasons.

Data used to assess water quality 102 fecal coliform bacteria samples, 0% samples exceeding in 400

MPN/100 ml.

Spatial representation 2 sites.

Temporal representation Fall, winter, spring, summer, fall (1987-2000).

Data type Numerical data.

Use of standard methodVentura Division of Environmental Health Services methods.

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation Delist because Ocean Plan WQO for fecal coliform was met.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 6. Data are numerical. The Ocean Plan total coliform objective of samples exceeding 1000 MPN/100ml is met.
- 7. Standard methods were used.
- 8. Other water body specific information including the effects of season and age of the data were considered.

None of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is high.

Region 4: Santa Clara River Estuary Beach/Surfer's Knoll Total Coliform

Water Body Santa Clara River Estuary Beach/Surfer's Knoll

Stressor/Media/Beneficial Use Total Coliform/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

Ventura Division of Environmental Health Services

Linkage between measurement endpoint and benefical use or standard

Total Coliform Ocean Plan standard is linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Ocean Plan standards are applicable to REC-1.

Water Body-specific Information Data 2-4 years old, samples collected at site, collected during all seasons.

Data used to assess water quality 102 total coliform bacteria samples, 5 samples exceeding 1000

MPN/100mL.

Spatial representation 2 sites.

Temporal representation Fall, winter, spring, summer, fall (1987-2000).

Data type Numerical data.

Use of standard methodVentura Division of Environmental Health Services methods.

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation Delist because Ocean Plan standard for total coliform was met.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical. The Ocean Plan total coliform objective of samples exceeding 1000 MPN/100ml is met.
- 6. Standard methods were used.
- 7. Other water body specific information including the effects of season and age of the data were considered.

An inadequate amount of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is high.

Region 4: Santa Clara River Reach 3 Nitrite as Nitrogen

Water Body Santa Clara River Reach 3

Stressor/Media/Beneficial Use Nitrite as Nitrogen/Water/Agriculture and Groundwater Recharge

Data quality assessment. Extent to which data quality requirements met.

POTW and United Water Conservation District, Department of Water

Resources

Linkage between measurement endpoint and benefical use or standard

Nitrite as Nitrogen WQO is linked to Agriculture and Groundwater

Recharge.

Utility of measure for judging if standards or uses are not attained

WQO are applicable to Agriculture and Groundwater Recharge.

Water Body-specific Information Data 2-5 years old, samples collected at site.

Data used to assess water quality 70 water samples, 5 samples exceeding.

Spatial representation Samples are representative of Reach.

Temporal representation Quarterly sampling events.

Data type Numerical data.

Use of standard method POTW and United Water Conservation District, Department of Water

Resources methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List. However reevaluation of data including non detected values at 1/2

the minimum detection level did not exceed Basin Plan Water Quality

Objectives for nitrite as nitrogen.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used are applicable.
- 5. Data are numerical and calculations including non detected values at 1/2 of the minimum detection level were included in the data evaluation.
- 6. Standard methods were used.
- 7. Other water body information including the effects of season and age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standards. Staff confidence that standards were not exceeded is moderate.

Region 4: Santa Clara River Reach 3 **Total Dissolved Solids**

Santa Clara River Reach 3 Water Body

Stressor/Media/Beneficial Use Total Dissolved Solids/Water/Groundwater Recharge and Agriculture

Data quality assessment. Extent to which data quality requirements met. POTW, United Water Conservation District, Department of Water

Resources

Linkage between measurement endpoint

and benefical use or standard

Basin Plan WQO linked to Agriculture and Groundwater Recharge.

Utility of measure for judging if standards or uses are not attained Basin Plan WQO exceedances are applicable.

Water Body-specific Information Data 2-5 years old, samples collected at site.

Data used to assess water quality

189 water samples, 38 sample exceeding.

Spatial representation

Samples representative of Reach.

Temporal representation

Quarterly sampling events.

Data type

Numerical data.

Use of standard method

POTW, United Water Conservation District, Department of Water

Resources methods.

Potential Source(s) of Pollutant

Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation

List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other site-specific information including the effects of season and age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Santa Clara River Reach 3 Nitrite and Nitrate as Nitrogen

Water Body Santa Clara River Reach 3

Stressor/Media/Beneficial Use Nitrate as Nitrogen/Water/Agriculture and Groundwater

Recharge

Data quality assessment. Extent to which data quality requirements met.

POTW and United Water Conservation District, Department of Water

Resources

Linkage between measurement endpoint

and benefical use or standard

Nitrite and Nitrate as Nitrogen WQO linked to Agriculture and

Groundwater Recharge.

Utility of measure for judging if standards or uses are not attained

WQOs are applicable to Agriculture and Groundwater Recharge.

Water Body-specific Information

Data 2-5 years old, samples collected at site.

Data used to assess water quality

53 water samples, 5 samples exceeding.

Spatial representation

Samples are representative of Reach.

Temporal representation

Quarterly sampling events.

Data type

Numerical data.

Use of standard method

POTW and United Water Conservation District, Department of Water

Resources methods.

Potential Source(s) of Pollutant

Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation

List. Reevaluation of data including non detected values at 1/2 the minimum detection level still exceeded Basin Plan Water Quality Objectives for nitrate and nitrite as nitrogen.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used are applicable.
- 5. Data are numerical and calculations including non- detected values at 1/2 of the minimum detection level exceeded water quality objectives.
- 6. Standard methods were used.
- 7. Other water body information including the effects of season, storm events, and age of the data were considered.

Region 4: Santa Clara River Reach 3 Nitrite and Nitrate as Nitrogen

An inadequate number of the water quality measurements exceeded the water quality standards. Staff confidence that standards were exceeded is low.

Region 4: Santa Clara River Reach 7 Ammonia

Water Body Santa Clara River Reach 7

Stressor/Media/Beneficial Use Ammonia/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

New data was not assessed for this water body-pollution combination.

Linkage between measurement endpoint

and benefical use or standard

N/A

Utility of measure for judging if standards or uses are not attained

N/A

Water Body-specific Information

N/A

Data used to assess water quality

New data was not submitted that indicates that water quality standards are

met.

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant Point sources.

Alternative Enforceable Program

An alternative enforceable program is in place that will address ammonia water quality standards exceedances for this Reach.

In June 1995, the seven water reclamation plants discharging in the San Gabriel River and Santa Clara River watersheds received NPDES permits containing requirements regarding compliance with the Basin Plan water quality objectives for ammonia. In accordance with these permits, the Los Angeles County Sanitation Districts have been pursuing the addition of nitrification and denitrification facilities at each of these plants to comply with the ammonia objectives. By June 2003, it is expected that these new facilities will be operational and ammonia will be drastically reduced.

Research facility operation shows that the monthly average ammonia concentration fully complies with the chronic ammonia objective that are expected to be applicable in June 2003.

It is probable that the majority of ammonia discharged to this water body was contributed by POTWs. Information in the record indicates that the majority (over 95%) of the ammonia in the Los Angeles River was contributed by POTWs. It is probable that the contribution in the San Gabriel River watershed is dominated by contributions from POTWs as well. Generally, concentrations of ammonia upstream of the treatment plants is much lower than downstream concentrations (up to an order of magnitude difference).

RWOCB Recommendation

None.

Region 4: Santa Clara River Reach 7 Ammonia

SWRCB Staff Recommendation

After reviewing the available data and information for this recommendation, SWRCB staff conclude that the water body should be placed on the Enforceable Program list because applicable water quality standards are exceeded and another program will address the problem.

Region 4: Santa Clara River Reach 8 Organic Enrichment-Low Dissolved

Santa Clara River Reach 8 Water Body

Stressor/Media/Beneficial Use Organic Enrichment-Low Dissolved Oxygen/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met. Dissolved Oxygen: Collection of data under quality assurance related to NPDES monitoring and RWQCB monitoring related to development of the nitrogen TMDL.

Algae data from two sources: Quality assurance for the first dataset performed by scientists from UC Los Angeles; unknown quality assurance associated with data collected by citizen monitoring effort.

Linkage between measurement endpoint and benefical use or standard

Organic Enrichment-Low Dissolved WQO is linked to Aquatic Life.

The RWQCB used the percentage of cover of algae as a surrogate for organic enrichment. No measurements of total organic carbon, dissolved organic carbon, etc. were available. Algae growth can be a result of increased nutrients or decreased cover. Algae measurements by themselves are poor indicators of organic enrichment, because many factors influence

algae growth.

Utility of measure for judging if standards or uses are not attained Organic Enrichment-Low Dissolved WQO is applicable to Aquatic Life. Algae percent cover may or may not be related to organic enrichment.

Water Body-specific Information Data is up to three years old.

Dissolved oxygen: 144 samples, 2 samples exceeding. Data used to assess water quality

The original listing in 1996 was based on measurements ranging from 4.2

mg/L to 10.8 mg/L (with a mean of 7.4 mg/L).

Algae data: 10 observations of floating algae with two of the observations exceeding the threshold (the same threshold used for Malibu Creek).

Spatial representation Dissolved Oxygen: One site. Algae data: 2 sampling locations (the length

of the sampling locations is approximately one mile).

Temporal representation Dissolved oxygen: All samples taken between 9 a.m. and 2 p.m. Samples

collected monthly during 1999 and 2001.

Algae data: Sampling was completed in Summer and Fall.

Data type Numerical data.

Dissolved Oxygen: NPDES methods. Use of standard method

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation Do not list due to poor data distribution.

Region 4: Santa Clara River Reach 8 Organic Enrichment-Low Dissolved

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list and place on the Monitoring List because applicable water quality standards are not exceeded and the lack of QA/QC.

This conclusion is based on the staff findings that:

- 1. The dissolved oxygen data is considered to be of adequate quality.
- 2. The data exhibited insufficient temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Other water body- or site-specific information including the effects of age of the data were considered.

An inadequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were not exceeded is moderate. More information is needed because the available data may underestimate standards non-attainment.

Region 4: Santa Clara River Reach 8 Nitrate-nitrogen plus Nitrite-nitrogen

Water Body Santa Clara River Reach 8

Stressor/Media/Beneficial Use Nitrate-nitrogen plus Nitrite-nitrogen/Water/Ground Water Recharge

(assuming that groundwater would be used as drinking water)

Data quality assessment. Extent to which data quality requirements met.

Collection of data under quality assurance related to NPDES monitoring and RWQCB monitoring related to development of the nitrogen TMDL.

Linkage between measurement endpoint and benefical use or standard

Nitrate-nitrogen plus Nitrite-nitrogen WQO are linked to Ground Water Recharge.

Utility of measure for judging if standards or uses are not attained

WQOs are applicable to Ground Water Recharge.

Water Body-specific Information Data is up to five years old.

Data used to assess water quality 44 samples, 1 sample exceeding.

Spatial representation Three locations were sampled downstream of a point source.

Temporal representation Data were collected quarterly from 1997 to 2002.

Data type Numerical data.

Use of standard method NPDES monitoring and RWQCB sampling used to support the Nitrogen

TMDL.

Potential Source(s) of PollutantPoint and nonpoint sources.

Alternative Enforceable Program

There is sufficient information to indicate that the nitrification/de-

nitrification process being installed at the Saugus WRP will address nitrite

problem for this reach.

RWQCB Recommendation Delist.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be removed from on the section 303(d) list because

applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the effects of age of the data were considered.

Most of the water quality measurements did not exceed the water quality standard. The staff confidence that standards were not exceeded is high.

Region 4: Santa Clara River Reach 8 Nitrite-Nitrogen

Santa Clara River Reach 8 Water Body

Nitrite-Nitrogen/Water/Ground Water Recharge (assuming that Stressor/Media/Beneficial Use

groundwater would be used as drinking water)

Data quality assessment. Extent to which data quality requirements met. NPDES monitoring and RWQCB staff monitoring related to TMDL

development.

Linkage between measurement endpoint

and benefical use or standard

Nitrogen water quality objectives are established in the Los Angeles Region Basin Plan for a number of reaches of the Santa Clara River.

Utility of measure for judging if standards or uses are not attained Measurements of nitrite-nitrogen can be compared to the numeric Basin Plan water quality objective.

Water Body-specific Information

Age of the data is up to five years.

Data used to assess water quality

36 total measurements of nitrite-nitrogen. 15 samples exceed the water quality objective for nitrite-nitrogen. There is sufficient information to indicate that the nitrification/de-nitrification process will address nitrite

problem.

Spatial representation

Temporal representation

Data were collected quarterly from 1997 through 2002.

Data type

Numerical data.

Two sampling stations.

Use of standard method

NPDES monitoring.

Potential Source(s) of Pollutant

Point sources, non-point sources, groundwater.

Alternative Enforceable Program

The Saugus Water Reclamation Plant, which discharges at the upstream end of the reach, is in the process of installing nitrification and denitrification (NDN) treatment processes to meet effluent limits in the plant's NPDES permit for ammonia and nitrate plus nitrite.

The permit establishes a compliance date of June 12, 2003 to meet receiving water limits for ammonia. The permittee has stated and shown that the NDN facilities will be operational at the Saugus plant by the June, 2003 deadline. The contract has been awarded (nearly \$10 million) to construct the NDN processes.

When the NDN facilities are operational the nitrite concentrations will be reduced drastically. Operation of a research NDN facility at the Whittier narrows WRP has shown that NDN will reduce nitrite levels well below the 1 mg/L nitrite water quality objective.

The Saugus WRP is the principal (if not sole) source of nitrite in Reach 8. A measurement upstream of the treatment plant had a very low concentration of nitrite (well below the standard). Other measurements down stream show varying levels of nitrite depending on possible plant uptake, conversion of nitrite to other more stable forms of nitrogen, and

Region 4: Santa Clara River Reach 8 Nitrite-Nitrogen

dilution.	

RWQCB Recommendation

List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the Enforceable Program List because applicable water quality standards are exceeded but there is a program in place now that will address the problem in 2003.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

An adequate number of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is high.

Region 4: Santa Clara River Reach 8 Ammonia

Water Body Santa Clara River Reach 8

Stressor/Media/Beneficial Use Ammonia/Water/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

New data was not assessed for this water body-pollution combination.

Linkage between measurement endpoint and benefical use or standard

N/A

Utility of measure for judging if standards or uses are not attained

N/A

Water Body-specific Information

N/A

Data used to assess water quality

New data was not submitted that indicates that water quality standards are

met.

Spatial representation N/A

Temporal representation N/A

Data type N/A

Use of standard method N/A

Potential Source(s) of Pollutant Point sources

Alternative Enforceable Program

An alternative enforceable program is in place that will address ammonia water quality standards exceedances for this Reach.

In June 1995, the seven water reclamation plants discharging in the San Gabriel River and Santa Clara River watersheds received NPDES permits containing requirements regarding compliance with the Basin Plan water quality objectives for ammonia. In accordance with these permits, the Los Angeles County Sanitation Districts have been pursuing the addition of nitrification and denitrification facilities at each of these plants to comply with the ammonia objectives. By June 2003, it is expected that these new facilities will be operational and ammonia will be drastically reduced.

Research facility operation shows that the monthly average ammonia concentration fully complies with the chronic ammonia objective that are expected to be applicable in June 2003.

It is probable that the majority of ammonia discharged to this water body was contributed by POTWs. Information in the record indicates that the majority (over 95%) of the ammonia in the Los Angeles River was contributed by POTWs. It is probable that the contribution in the San Gabriel River watershed is dominated by contributions from POTWs as well. Generally, concentrations of ammonia upstream of the treatment plants is much lower than downstream concentrations (up to an order of magnitude difference).

RWOCB Recommendation

None.

Region 4: Santa Clara River Reach 8 Ammonia

SWRCB Staff Recommendation

After reviewing the available data and information for this recommendation, SWRCB staff conclude that the water body should be placed on the Enforceable Program list because applicable water quality standards are exceeded and another program will address the problem.

Region 4: Santa Monica Bay Offshore/Nearshore Copper

Water Body Santa Monica Bay Offshore/Nearshore

Stressor/Media/Beneficial Use Copper/Sediment/Marine Habitat

Copper/Fish Tissue/Commercial and Sport Fishing

Data quality assessment. Extent to which data quality requirements met.

High quality for sediment data (See QAPP for SCBPP and Bight '98). High quality fish tissue data (See QAPP for Hyperion permit).

Linkage between measurement endpoint and benefical use or standard

Habitat quality is related to pollutant concentration (no toxics in toxic amounts). Fish tissue data can be compared to risk-based values for the protection of human health (no toxics in toxic amounts). Linkages between fish tissue data and uses associated with the protection of fish and wildlife are weak.

Utility of measure for judging if standards or uses are not attained

Use of sediment guidelines from literature alone is somewhat controversial. However, use of sediment triad (chemistry, benthos, and acute toxicity) in a weight of evidence approach is well established. Fish tissue data provides an additional screen in overall weight of evidence approach.

Water Body-specific Information

Regional surveys conducted in 1994 and 1998. Rig-fishing in Santa Monica Bay collected by Hyperion (1995-2000).

Data used to assess water quality

Sediment contaminant concentration, benthic community structure, wholesediment toxicity tests, fish muscle tissue data. Copper are concentrations low relative to thresholds.

1	1994 (n=55)	1998 (n=23)
% of Area >ER-L (34 mg/kg)) 44%	13%
% of Area >ER-M (270 mg/k	(g) 0%	0%
Average concentration	30 mg/kg	12 mg/kg

There is no evidence of acute toxicity in sediments in 1994 (n = 55) or 1998 (n = 23).

Benthic community structure assessed as good in 98% to 100% of area in 1994 and 1998 using the Benthic Response Index.

Copper concentrations in fish muscle tissue from approximately 250 samples collected in Santa Monica Bay were below US Fish and Wildlife (1998) screening value of 15 mg/kg ww.

Spatial representation

Regional surveys entire bay. Point Dume to Palos Verdes Shelf (55 samples in 1994 and 23 samples in 1998). Rig-fishing sites (9) representative of offshore conditions in the Bay.

Temporal representation

2 years data from Regional Survey. 5 years data on fish tissue.

Data type

Numerical data.

Use of standard method

Performance-based.

Region 4: Santa Monica Bay Offshore/Nearshore Copper

Potential Source(s) of Pollutant

Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation

None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 4. Data are numerical.
- 5. Standard methods were used.
- 6. Other water body- or site-specific information including the effects of age of the data were considered.

Region 4: Santa Monica Bay Offshore/Nearshore Arsenic

Water Body Santa Monica Bay Offshore/Nearshore

Stressor/Media/Beneficial Use Arsenic/Sediment/Marine Habitat

Arsenic/Fish Tissue/Commercial and Sport Fishing

Data quality assessment. Extent to which data quality requirements met.

High quality for sediment data (See QAPP for SCBPP and Bight '98). High quality fish tissue data (See QAPP for Hyperion permit).

Linkage between measurement endpoint and benefical use or standard

Habitat quality is related to pollutant concentration (No toxics in toxic amounts). Fish tissue data can be compared to risked based numbers for the protection of human health (No toxics in toxic amounts). Linkages between fish tissue data and uses associated with the protection of fish and wildlife are weak.

Utility of measure for judging if standards or uses are not attained

Use of sediment guidelines from literature alone is somewhat controversial. However, use of sediment triad (chemistry, benthos, and acute toxicity) in a weight of evidence approach is well established. Fish tissue data provides an additional screen in overall weight of evidence approach.

Water Body-specific Information

Regional surveys conducted in 1994 and 1998. Rig-fishing in Santa Monica Bay collected by Hyperion (1995-2000).

Data used to assess water quality

Arsenic concentrations fish muscle tissue concentrations in approximately 250 samples were low relative to human-health based screening values of 1.0 mg/kg ww for organic arsenic (OEHHA, 1999). These comparisons were made assuming that organic arsenic comprises 10% of the total arsenic measured in fish tissue.

Spatial representation

Regional surveys entire bay. Point Dume to Palos Verdes Shelf (55 samples in 1994 and 23 samples in 1998). Rig-fishing sites (9) representative of offshore conditions in the Bay.

Temporal representation

2 years data from Regional Survey. 5 years data on fish tissue.

Data type

Numerical data.

Use of standard method

Performance-based.

Potential Source(s) of Pollutant

Point and nonpoint sources.

Alternative Enforceable Program

N/A

RWQCB Recommendation

None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

1. The data is considered to be of adequate quality.

Region 4: Santa Monica Bay Offshore/Nearshore Arsenic

- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 4. Data are numerical.
- 5. Standard methods were used.
- 6. Other water body- or site-specific information including the effects of age of the data were considered.

Region 4: Santa Monica Bay Offshore/Nearshore Cadmium

Water Body Santa Monica Bay Offshore/Nearshore

Stressor/Media/Beneficial Use Cadmium/Sediment/Marine Habitat

Cadmium/Fish Tissue/Commercial and Sport Fishing

Data quality assessment. Extent to which data quality requirements met.

High quality for sediment data (See QAPP for SCBPP and Bight '98). High quality for fish tissue data (See QAPP for Hyperion permit).

Linkage between measurement endpoint and benefical use or standard

Habitat quality is related to pollutant concentration (no toxics in toxic amounts). Fish tissue data can be compared to risked based numbers for the protection of human health (no toxics in toxic amounts). Linkages between fish tissue data and uses associated with the protection

of fish and wildlife are weak.

Utility of measure for judging if standards or uses are not attained

Use of sediment guidelines from literature alone is somewhat controversial. However, use of sediment triad (chemistry, benthos, and acute toxicity) in a weight of evidence approach is well established. Fish tissue data provides an additional screen in overall weight of evidence approach.

Water Body-specific Information

Regional surveys conducted in 1994 and 1998. Rig-fishing in Santa Monica Bay collected by Hyperion (1995-2000).

Data used to assess water quality

Sediment contaminant concentration, benthic community structure, wholesediment toxicity tests, fish muscle tissue data. Cadmium are concentrations low relative to thresholds.

	1994 (n=55)	1998 (n=23)
% of Area >ER-L (1.2 mg/l	(g) 9%	17%
% of Area >ER-M (9.6 mg/	kg) 0%	0%
Average concentration	0.66 mg/kg	0.72 mg/kg

There is no evidence of acute toxicity in sediments in 1994 (n = 55) or 1998 (n = 23).

Benthic community structure assessed as good in 98% to 100% of area in 1994 and 1998 using the Benthic Response Index.

Cadmium concentrations fish muscle tissue from approximately 250 fish samples were low relative to human-health based screening value of 3.0 mg/kg ww (OEHHA, 1998).

Spatial representation

Regional surveys entire bay. Point Dume to Palos Verdes Shelf (55 samples in 1994 and 23 samples in 1998). Rig-fishing sites (9) representative of offshore conditions in the Bay.

Temporal representation

2 years data from Regional Survey. 5 years data on fish tissue.

Data type

Numerical data.

Use of standard method

Performance-based.

Region 4: Santa Monica Bay Offshore/Nearshore Cadmium

Potential Source(s) of Pollutant

Point and non-point sources.

Alternative Enforceable Program

N/A

RWQCB Recommendation

None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 4. Data are numerical.
- 5. Standard methods were used.
- 6. Other water body- or site-specific information including the effects of age of the data were considered.

Region 4: Santa Monica Bay Offshore/Nearshore Chromium

Water Body Santa Monica Bay Offshore/Nearshore

Stressor/Media/Beneficial Use Chromium/Sediment/Marine Habitat

Chromium/Tissue/Commercial and Sport Fishing

Data quality assessment. Extent to which data quality requirements met.

High quality for sediment data (See QAPP for SCBPP and Bight '98). High quality fish tissue data (See QAPP for Hyperion permit).

Linkage between measurement endpoint and benefical use or standard

Habitat quality is related to pollutant concentration (no toxics in toxic amounts). Fish tissue data can be compared to risked based numbers for the protection of human health (no toxics in toxic amounts). Linkages between fish tissue data and uses associated with the protection of fish and wildlife are weak.

Utility of measure for judging if standards or uses are not attained

Use of sediment guidelines from literature alone is somewhat controversial. However, use of sediment triad (chemistry, benthos, and acute toxicity) in a weight of evidence approach is well established. Fish tissue data provides an additional screen in overall weight of evidence approach.

Water Body-specific Information

Regional surveys conducted in 1994 and 1998. Rig-fishing in Santa Monica Bay collected by Hyperion (1995-2000).

Data used to assess water quality

Sediment contaminant concentration, benthic community structure, wholesediment toxicity tests, fish muscle tissue data. Chromium concentrations are low relative to sediment thresholds.

1994 (n=55) 1998 (n=23) % of Area >ER-L (1.0 mg/kg) 45% 4% % of Area >ER-M (3.7 mg/kg) 0% 0% Average concentration 85 mg/kg 45 mg/kg

There is no evidence of acute toxicity in sediments in 1994 (n = 55) or 1998 (n = 23).

Benthic community structure assessed as good in 98% to 100% of area in 1994 and 1998 using the Benthic Response Index.

Chromium concentrations in fish muscle tissue from approximately 250 samples were low relative to MTRL of 1.0 mg/kg ww for total chromium.

Spatial representation Regional surveys entire bay. Point Dume to Palos Verdes Shelf (55

samples in 1994 and 23 samples in 1998). Rig-fishing sites (9)

representative of offshore conditions in the Bay.

Temporal representation 2 years data from Regional Survey. 5 years data on fish tissue.

Data type Numerical data.

Use of standard method Performance-based.

Potential Source(s) of Pollutant Point and non-point sources.

Region 4: Santa Monica Bay Offshore/Nearshore Chromium

Alternative Enforceable Program	N/A	
RWQCB Recommendation	None.	

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 4. Data are numerical.
- 5. Standard methods were used.
- 6. Other water body- or site-specific information including the effects of age of the data were considered.

Region 4: Santa Monica Bay Offshore/Nearshore Lead

Water Body Santa Monica Bay Offshore/Nearshore

Stressor/Media/Beneficial Use Lead/Sediment/Marine Habitat

Lead/Tissue/Commercial and Sport Fishing

Data quality assessment. Extent to which data quality requirements met.

High quality for sediment data (See QAPP for SCBPP and Bight '98). High quality fish tissue data (See QAPP for Hyperion permit).

Linkage between measurement endpoint and benefical use or standard

Habitat quality is related to pollutant concentration (no toxics in toxic amounts). Fish tissue data can be compared to risked based numbers for the protection of human health (no toxics in toxic amounts). Linkages between fish tissue data and uses associated with the protection of fish and wildlife are weak.

Utility of measure for judging if standards or uses are not attained

Use of sediment guidelines from literature alone is somewhat controversial. However, use of sediment triad (chemistry, benthos, and acute toxicity) in a weight of evidence approach is well established. Fish tissue data provides an additional screen in overall weight of evidence approach.

Water Body-specific Information

Regional surveys conducted in 1994 and 1998. Rig-fishing in Santa Monica Bay collected by Hyperion (1995-2000).

Data used to assess water quality

Sediment contaminant concentration, benthic community structure, wholesediment toxicity tests, fish muscle tissue data. Lead are concentrations low relative to thresholds.

199	94 (n=55)	1998 (n=23)
% of Area >ER-L (81 mg/kg)	7%	22%
% of Area >ER-M (370 mg/kg) 0%	0%
Average concentration	22 mg/kg	40 mg/kg

There is no evidence of acute toxicity in sediments in 1994 (n = 55) or 1998 (n = 23).

Benthic community structure assessed as good in 98% to 100% of area in 1994 and 1998 using the Benthic Response Index.

Lead concentrations in fish muscle tissue concentrations from approximately 250 samples were low relative to MTRL of 2.0 mg/kg ww.

There is no lead-based consumption advisory for commercial or sport fishing in fish from Santa Monica Bay (OEHHA, 2001).

Spatial representation

Regional surveys entire bay. Point Dume to Palos Verdes Shelf (55 samples in 1994 and 23 samples in 1998). Rig-fishing sites (9) representative of offshore conditions in the Bay.

Temporal representation

2 years data from Regional Survey. 5 years data on fish tissue.

Data type

Numerical data.

Region 4: Santa Monica Bay Offshore/Nearshore Lead

Use of standard method Performance based.

Potential Source(s) of PollutantPoint and nonpoint sources.

 $\begin{tabular}{ll} Alternative Enforceable Program & N/A \end{tabular}$

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 4. Data are numerical.
- 5. Standard methods were used.
- 6. Other water body- or site-specific information including the effects of age of the data were considered.

Region 4: Santa Monica Bay Offshore/Nearshore Zinc

Water Body Santa Monica Bay Offshore/Nearshore

Stressor/Media/Beneficial Use Zinc/Sediment/Marine Habitat

Zinc/Fish Tissue/Commercial and Sport Fishing

Data quality assessment. Extent to which data quality requirements met.

High quality for sediment data (See QAPP for SCBPP and Bight '98). High quality fish tissue data (See QAPP for Hyperion permit).

Linkage between measurement endpoint and benefical use or standard

Habitat quality is related to pollutant concentration (no toxics in toxic amounts). Fish tissue data can be compared to risked based numbers for the protection of human health (no toxics in toxic amounts). Linkages between fish tissue data and uses associated with the protection of fish and wildlife are weak.

Utility of measure for judging if standards or uses are not attained

Use of sediment guidelines from literature alone is somewhat controversial. However, use of sediment triad (chemistry, benthos, and acute toxicity) in a weight of evidence approach is well established. Fish tissue data provides an additional screen in overall weight of evidence approach. Linkages between fish tissue data and uses associated with the protection of fish and wildlife are weak.

Water Body-specific Information

Regional surveys conducted in 1994 and 1998. Rig-fishing in Santa Monica Bay collected by Hyperion (1995-2000).

Data used to assess water quality

Sediment contaminant concentration, benthic community structure, wholesediment toxicity tests, fish muscle tissue data. Zinc concentrations are low relative to thresholds.

	1994 (n=55)	1998 (n=23)
% of Area >ER-L (150 mg/k	(g) 7%	0%
% of Area >ER-M (410 mg/	kg) 0%	0%
Average concentration	84 mg/kg	61 mg/kg

There is no evidence of acute toxicity in sediments in 1994 (n = 55) or 1998 (n = 23).

Benthic community structure assessed as good in 98% to 100% of area in 1994 and 1998 using the Benthic Response Index.

Zinc concentrations in fish muscle tissue from approximately 250 samples were low relative to the Mean International Standard for freshwater fish of 45 mg/kg ww (United Nations, 1983).

Spatial representation

Regional surveys entire bay. Point Dume to Palos Verdes Shelf (55 samples in 1994 and 23 samples in 1998). Rig-fishing sites (9) representative of offshore conditions in the Bay.

Temporal representation

2 years data from Regional Survey. 5 years data on fish tissue.

Data type

Numerical data.

Use of standard method

Performance-based.

Region 4: Santa Monica Bay Offshore/Nearshore Zinc

Potential Source(s) of Pollutant

Point and nonpoint sources.

Alternative Enforceable Program

N/A

RWQCB Recommendation

None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 4. Data are numerical.
- 5. Standard methods were used.
- 6. Other water body- or site-specific information including the effects of age of the data were considered.

Region 4: Santa Monica Bay Offshore/Nearshore Silver

Water Body Santa Monica Bay Offshore/Nearshore

Stressor/Media/Beneficial Use Silver/Sediment/Marine Habitat

Silver/Tissue/Commercial and Sport Fishing

Data quality assessment. Extent to which data quality requirements met.

High quality for sediment data (See QAPP for SCBPP and Bight '98). High quality fish tissue data (See QAPP for Hyperion permit).

Linkage between measurement endpoint and benefical use or standard

Habitat quality is related to pollutant concentration (no toxics in toxic amounts). Fish tissue data can be compared to risked based numbers for the protection of human health (no toxics in toxic amounts). Linkages between fish tissue data and uses associated with the protection of fish and wildlife are weak.

Utility of measure for judging if standards or uses are not attained

Use of sediment guidelines from literature alone is somewhat controversial. However, use of sediment triad (chemistry, benthos, and acute toxicity) in a weight of evidence approach is well established. Fish tissue data provides an additional screen in overall weight of evidence approach.

Water Body-specific Information

Regional surveys conducted in 1994 and 1998. Rig-fishing in Santa Monica Bay collected by Hyperion (1995-2000).

Data used to assess water quality

Sediment contaminant concentration, benthic community structure, whole-sediment toxicity tests, fish muscle tissue data. Silver concentrations are slightly elevated relative to sediment thresholds. The majority of these elevated values are within the zone of influence of the Hyperion outfall.

	1994 (n=55)	1998 (n=23)
% of Area >ER-L (1.0 mg/k	g) 71%	65%
% of Area >ER-M (3.7 mg/k	(g) 13%	26%
Average concentration	1.58 mg/kg	2.06 mg/kg

There is no evidence of acute toxicity in sediments in 1994 (n = 55) or 1998 (n = 23).

Benthic community structure good in 98% of area.

There are no human-health based or wildlife based screening values for evaluating silver concentrations in fish tissue. There is no silver-based consumption advisory for commercial or sport fishing in fish from Santa Monica Bay (OEHHA, 2001).

Spatial representation

Regional surveys entire bay. Point Dume to PV Shelf (55 samples in 1994 and 23 samples in 1998). Rig-fishing sites (9) representative of offshore conditions in the Bay.

Temporal representation

2 years data from Regional Survey. 5 years data on fish tissue.

Data type

Numerical data.

Use of standard method

Performance-based.

Region 4: Santa Monica Bay Offshore/Nearshore Silver

Potential Source(s) of Pollutant

Point and nonpoint sources.

Alternative Enforceable Program

N/A

RWQCB Recommendation

None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 4. Data are numerical.
- 5. Standard methods were used.
- 6. Other water body- or site-specific information including the effects of age of the data were considered.

Region 4: Santa Monica Bay Offshore/Nearshore Nickel

Water Body Santa Monica Bay Offshore/Nearshore

Stressor/Media/Beneficial Use Nickel/Sediment/Marine Habitat

Nickel/Fish Tissue/Commercial and Sport Fishing

Data quality assessment. Extent to which data quality requirements met.

High quality for sediment data (See QAPP for SCBPP and Bight '98). High quality fish tissue data (See QAPP for Hyperion permit).

Linkage between measurement endpoint and benefical use or standard

Habitat quality is related to pollutant concentration (no toxics in toxic amounts). Fish tissue data can be compared to risked based numbers for the protection of human health (no toxics in toxic amounts). Linkages between fish tissue data and uses associated with the protection of fish and wildlife are weak.

Utility of measure for judging if standards or uses are not attained

Use of sediment guidelines from literature alone is somewhat controversial. However, use of sediment triad (chemistry, benthos, and acute toxicity) in a weight of evidence approach is well established. Fish tissue data provides an additional screen in overall weight of evidence approach.

Water Body-specific Information

Regional surveys conducted in 1994 and 1998. Rig-fishing in Santa Monica Bay collected by Hyperion (1995-2000).

Data used to assess water quality

Sediment contaminant concentration, benthic community structure, wholesediment toxicity tests, fish muscle tissue data. Nickel concentrations are low relative to thresholds.

199	04 (n=55)	1998 (n=23)
% of Area >ER-L (21 mg/kg)	40%	30%
% of Area >ER-M (52 mg/kg)	2%	0%
Average concentration	24 mg/kg	20 mg/kg

There is no evidence of acute toxicity in sediments in 1994 (n = 55) or 1998 (n = 23).

Benthic community structure assessed as good in 98% to 100% of area in 1994 and 1998 using the Benthic Response Index.

There are no human-health based or wildlife based screening values for evaluating nickel concentrations in fish tissue.

Spatial representation

Regional surveys entire bay. Point Dume to Palos Verdes Shelf (55 samples in 1994 and 23 samples in 1998). Rig-fishing sites (9) representative of offshore conditions in the Bay.

Temporal representation

2 years data from Regional Survey. 5 years data on fish tissue.

Data type

Numerical data.

Use of standard method

Performance based.

Potential Source(s) of Pollutant

Point and nonpoint sources.

Region 4: Santa Monica Bay Offshore/Nearshore Nickel

Alternative Enforceable Program	N/A
RWQCB Recommendation	None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 4. Data are numerical.
- 5. Standard methods were used.
- 6. Other water body- or site-specific information including the effects of age of the data were considered.

Region 4: Santa Monica Bay Offshore/Nearshore Mercury

Water Body Santa Monica Bay Offshore/Nearshore

Stressor/Media/Beneficial Use Mercury/Sediment/Marine Habitat

Mercury/Fish Tissue/Commercial and Sport Fishing

Data quality assessment. Extent to which data quality requirements met.

High quality for sediment data (See QAPP for SCBPP and Bight '98). High quality fish tissue data (See QAPP for Hyperion permit).

Linkage between measurement endpoint and benefical use or standard

Habitat quality is related to pollutant concentration (no toxics in toxic amounts). Fish tissue data can be compared to risked based numbers for the protection of human health (no toxics in toxic amounts).

Linkages between fish tissue data and uses associated with the protection

of fish and wildlife are weak.

Utility of measure for judging if standards or uses are not attained

Use of sediment guidelines from literature alone is somewhat controversial. However, use of sediment triad (chemistry, benthos, and acute toxicity) in a weight of evidence approach is well established. Fish tissue data provides an additional screen in overall weight of evidence approach.

Water Body-specific Information

Regional surveys conducted in 1994 and 1998. Rig-fishing in Santa Monica Bay collected by Hyperion (1995-2000).

Data used to assess water quality

Sediment contaminant concentration, benthic community structure, wholesediment toxicity tests, fish muscle tissue data. Mercury concentrations are low relative to thresholds.

1994 (n = 55) 1998 (n=23) % of Area >ER-L (0.15 mg/kg) 45% 48% % of Area >ER-M (0.71 mg/kg) 0% 0% Average concentration 0.14 mg/kg 0.16mg/kg

There is no evidence of acute toxicity in sediments in 1994 (n = 55) or 1998 (n = 23).

Benthic community structure assessed as good in 98% to 100% of area in 1994 and 1998 using the Benthic Response Index.

The average mercury concentrations in fish muscle tissue from approximately 250 samples collected in Santa Monica Bay were close to the human-health based screening values (OEHHA, 0.3 mg/kg ww). There is no mercury-based consumption advisory for commercial or sport fishing in fish from Santa Monica Bay (OEHHA, 2001).

Spatial representation

Regional surveys entire bay. Point Dume to Palos Verdes Shelf (55 samples in 1994 and 23 samples in 1998). Rig-fishing sites (9) representative of offshore conditions in the Bay.

Temporal representation

2 years data from Regional Survey. 5 years data on fish tissue.

Data type

Numerical data.

Region 4: Santa Monica Bay Offshore/Nearshore Mercury

Use of standard method Performance-based.

Potential Source(s) of PollutantPoint and nonpoint sources.

 $\begin{tabular}{ll} Alternative Enforceable Program & N/A \end{tabular}$

RWQCB Recommendation None.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. The evaluation guideline used to interpret narrative water quality standards is adequate.
- 4. Data are numerical.
- 5. Standard methods were used.
- 6. Other water body- or site-specific information including the effects of age of the data were considered.

Region 4: Seaside Wilderness Park (400 yards N. of Ventura River) Bacterial Indicators

Water Body Seaside Wilderness Park (400 yards N. of Ventura River)

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

County Health Department.

Linkage between measurement endpoint and benefical use or standard

Bacterial Indicators are linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Data can be compared directly to Bacterial Indicator water quality standards which are linked to REC-1.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 82 samples, 2 samples exceeding.

Spatial representation 1 station: VC(12000). This station represents the beach 50 yards on either

side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation Do not list.

SWRCB Staff Recommendation

After reviewing the available data and information provided by the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should not be placed on the section 303(d) list because applicable water quality standards are not exceeded.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the effects of age of the data were considered.

Region 4: Sespe Creek (tributary to Santa Clara River Reach 3) pH

Water Body Sespe Creek (tributary to Santa Clara River Reach 3)

Stressor/Media/Beneficial Use pH/Water/Aquatic Life and Agriculture

Data quality assessment. Extent to which data quality requirements met.

POTW and United Water Conservation District

Linkage between measurement endpoint and benefical use or standard

pH WQO linked to Agriculture and Aquatic Life.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Agriculture and Aquatic Life.

Water Body-specific Information Data 2 - 5 years old, sample measured from site.

Data used to assess water quality 24 water samples, 6 sample exceeding.

Spatial representation Samples representative of Reach.

Temporal representation Quarterly sampling events.

Data type Numerical data.

Use of standard method POTW and United Water Conservation District method.

Potential Source(s) of Pollutant Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of season and age of the data were considered.

Region 4: Sespe Creek (tributary to Santa Clara River Reach 3) Chloride

Water Body Sespe Creek (tributary to Santa Clara River Reach 3)

Stressor/Media/Beneficial Use Chloride/Water/Aquatic Life and Agriculture

Data quality assessment. Extent to which data quality requirements met.

United Water Conservation District

Linkage between measurement endpoint and benefical use or standard

Chloride WQO is linked to Agriculture and Aquatic Life.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Agriculture and Aquatic Life.

Water Body-specific Information Data 2 - 5 years old, sampled measured from site.

Data used to assess water quality 16 water samples, 6 sample exceeding.

Spatial representation Samples are representative of Reach.

Temporal representation Quarterly sampling events.

Data type Numerical data.

Use of standard methodUnited Water Conservation District

Potential Source(s) of Pollutant Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 6. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of season and age of the data were considered.

Region 4: Surfer's Point at Seaside (End of access path via wooden ga + Bacterial Indicators

Water Body Surfer's Point at Seaside (End of access path via wooden gate)

Stressor/Media/Beneficial Use Bacteria Indicators/Water/REC-1

Data quality assessment. Extent to which data quality requirements met.

County Health Department

Linkage between measurement endpoint and benefical use or standard

Bacterial Indicators linked to REC-1.

Utility of measure for judging if standards or uses are not attained

Data can be compared directly to bacterial indicator water quality standards, which is linked to REC-1.

Water Body-specific Information Data 3 years old, collected at site.

Data used to assess water quality 20 samples exceeding standards out of 105 samples.

Spatial representation 1 station: VC(13000). This station represents the beach 50 yards on either

side of the sampling point.

Temporal representation Data collected in 1999, 2000, and 2001.

Data type Numerical data.

Use of standard method Standard bacteriological methods.

Potential Source(s) of Pollutant Point and nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information provided by the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient spatial and temporal coverage.
- 3. Beneficial uses apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body- or site-specific information including the age of the data were considered.

Region 4: Ventura River Estuary Total Coliform

Water Body Ventura River Estuary

Stressor/Media/Beneficial Use Total Coliform/Water/REC-1 and Shellfish Harvesting

Data quality assessment. Extent to which data quality requirements met.

Ojai Valley River Volunteer Monitoring Program

Linkage between measurement endpoint and benefical use or standard

Ocean Plan standards are linked to REC-1 and Shellfish Harvesting.

Utility of measure for judging if standards or uses are not attained

 $Ocean\ Plan\ standards\ are\ applicable\ to\ REC\mbox{-}1\ and\ Shellfish\ Harvesting}.$

.

Water Body-specific Information Data is 2-4 year old, data measured in the waterbody, samples collected

different in seasons and years.

Data used to assess water quality 37 bacteria samples, Total Coliform (8 exceeding at 1000/100) (14

exceeding at 230/100ml and 37 exceeding at 70/100ml).

Spatial representation 1 site.

Temporal representation Different seasons and years.

Data type Numerical data.

Use of standard method Ojai Valley River Volunteer Monitoring Program.

Potential Source(s) of Pollutant Stables and horse property.

Alternative Enforceable Program

RWQCB Recommendation List due to exceedance in Ocean Plan WQO.

SWRCB Staff Recommendation

After reviewing of the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of season and age of the data were considered.

Region 4: Ventura River Estuary DDT

Water Body Ventura River Estuary

Stressor/Media/Beneficial Use DDT/Tissue/Fish Consumption

Data quality assessment. Extent to which data quality requirements met.

TSMP and BPTCP

Linkage between measurement endpoint

and benefical use or standard

DDT MTRLs are linked to Fish Consumption.

Utility of measure for judging if standards or uses are not attained

MTRLs are applicable to Fish Consumption.

Water Body-specific Information Data 10 years old, data measured from site, species present, one time

sample.

Data used to assess water quality 1 tissue sample (Original listing appears to have been based on DDT

concentrations found in shiner surf perch in 1993 (TSM); however, the level of 23 ppb of p,p'-DDE is below MTRL-which equals 32.0 ppb)..

Spatial representation 1 tissue sample.

Temporal representation One time sample event.

Data type Numerical data.

Use of standard methodTSMP, BPTCP and NPDES methods.

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation Delist.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be removed from the section 303(d) list because applicable water quality standards are not exceeded. In addition the original listing was based on one sample and concentrations of DDE was

below the MTRLs.

Region 4: Ventura River Estuary Fecal Coliform

Ventura River Estuary

Water Body

Stressor/Media/Beneficial Use Fecal Coliform/Water/REC-1 and Shellfish Harvesting

Data quality assessment. Extent to which data quality requirements met. Ojai Valley River Volunteer Monitoring Program

Linkage between measurement endpoint and benefical use or standard

Fecal Coliform WQO is linked to REC-1 and Shellfish Harvesting.

Utility of measure for judging if standards or uses are not attained WQO are applicable REC-1 and Shellfish Harvesting.

Water Body-specific Information Data is 2-4 years old, data measured in the waterbody, samples collected

different in seasons and years.

Data used to assess water quality 37 bacteria samples, 6 samples exceeding 400 MPN/100ml objective.

1 site. Spatial representation

Temporal representation Different seasons and years.

Data type Numerical data.

Use of standard method Ojai Valley River Volunteer Monitoring Program.

Potential Source(s) of Pollutant Stables and horse property.

Alternative Enforceable Program

RWQCB Recommendation List due exceedances in Basin Plan WQO.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or

causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of season and age of the data were considered.

Most of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 4: Ventura River Reach 1 (Estuary to Main Street) and R2 (Main + Zinc

Water Body Ventura River Reach 1 (Estuary to Main Street) and R2 (Main Street to

Weldon Canyon)

Stressor/Media/Beneficial Use Zinc/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint

and benefical use or standard

EDLs are not linked to Beneficial Use.

Utility of measure for judging if standards or uses are not attained

EDLs are not an applicable guideline for assessment of beneficial use

protection.

N/A

 $\textbf{Water Body-specific Information} \qquad \qquad N/A$

Data used to assess water quality N/A

Spatial representation N/A
Temporal representation N/A

Use of standard methodTSMP methods.

Potential Source(s) of Pollutant Historical use of pesticides.

Alternative Enforceable Program

Data type

RWQCB Recommendation Delist because the original Listing was based on EDLs which do not

represent valid assessment guidelines.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret narrative water

Region 4: Ventura River Reach 1 (Estuary to Main Street) and R2 (Main + Silver

Water Body Ventura River Reach 1 (Estuary to Main Street) and R2 (Main Street to

Weldon Canyon)

Stressor/Media/Beneficial Use Silver/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint

and benefical use or standard

EDLs are not linked to Beneficial Uses.

Utility of measure for judging if standards or uses are not attained

EDLs are not an applicable guideline for assessment of beneficial use

protection.

 $\textbf{Water Body-specific Information} \qquad \qquad N/A$

Data used to assess water quality N/A

Spatial representationN/ATemporal representationN/AData typeN/A

Use of standard method TSMP methods.

Potential Source(s) of Pollutant Historical use of pesticides

Alternative Enforceable Program

RWQCB Recommendation Delist because the original listing was based on EDLs which do not

represent valid assessment guidelines.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret narrative water

Region 4: Ventura River Reach 1 (Estuary to Main Street) and R2 (Main + Selenium

Water Body Ventura River Reach 1 (Estuary to Main Street) and R2 (Main Street to

Weldon Canyon)

Stressor/Media/Beneficial Use Selenium/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint

and benefical use or standard

EDLs are not linked to Beneficial Use.

Utility of measure for judging if standards or uses are not attained

EDLs are not an applicable guideline for assessment of beneficial use

protection.

 $\textbf{Water Body-specific Information} \qquad \qquad N/A$

Data used to assess water quality No data presented.

Spatial representationN/ATemporal representationN/AData typeN/A

Use of standard method TSMP methods.

Potential Source(s) of Pollutant Historical use of pesticides.

Alternative Enforceable Program

RWQCB Recommendation Delist because the original Listing was based on EDLs which do not

represent valid assessment guidelines.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret narrative water

Region 4: Ventura River Reach 1 (Estuary to Main Street) and R2 (Main + Copper

Water Body Ventura River Reach 1 (Estuary to Main Street) and R2 (Main Street to

Weldon Canyon)

Stressor/Media/Beneficial Use Copper/Tissue/Aquatic Life

Data quality assessment. Extent to which data quality requirements met.

TSMP

Linkage between measurement endpoint

and benefical use or standard

EDLs are not linked to Beneficial Use.

Utility of measure for judging if standards or uses are not attained

EDLs are not an applicable guideline for assessment of beneficial use

protection.

 $\textbf{Water Body-specific Information} \qquad \qquad N/A$

Data used to assess water quality N/A

Spatial representationN/ATemporal representationN/AData typeN/A

Use of standard method TSMP methods.

Potential Source(s) of Pollutant Historical use of pesticides.

Alternative Enforceable Program

RWQCB Recommendation Delist because the original Listing was based on EDLs which do not

represent valid assessment guidelines.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret narrative water

Region 4: Westlake Lake Chlordane

Water Body Westlake Lake

Stressor/Media/Beneficial Use Chlordane/Tissue/Fish Consumption

Data quality assessment. Extent to which data quality requirements met.

TSMP OAPP

Linkage between measurement endpoint and benefical use or standard

Chlordane MTRLs are linked to Fish Consumption.

Utility of measure for judging if standards or uses are not attained

MTRLs are applicable to Fish Consumption.

Water Body-specific Information

Data is 10-11 years old.

Data used to assess water quality

2 tissue samples, 0 samples exceeding. The tissue samples collected in 1991 and 1992 are below the MTRL guideline for chlordane.

This water body-pollutant combination was recommended to be removed from the section 303(d) list by the RWQCB. The SWRCB staff recommended to maintain the listing because the data was not presented to support delisting. In December 2002, the RWQCB included data to support the delisting.

Spatial representation Unknown.

Temporal representation Data was collected in 1991 and 1992.

Data type Numerical.

Use of standard method TSMP.

Potential Source(s) of Pollutant Unknown.

Alternative Enforceable Program

RWQCB RecommendationDelist because the original Listing was based on a tissue concentration that now is below the MTRL guideline for Chlordane.

now is below the MTRL guideline for Chiordan

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should removed from the 303(d) list because applicable water quality standards are below the guideline. The RWQCB provided the appropriate data, that was inadvertently missing in their original fact sheet, to support the delisting of this water body-pollutant combination.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of age of the data were considered.

Region 4: Westlake Lake Chlordane

None of the water quality measurements exceeded the water quality standard. The staff confidence that standards were exceeded is moderate.

Region 4: Westlake Lake Copper

Westlake Lake Water Body

Stressor/Media/Beneficial Use Copper/Tissue/Fish Consumption

Data quality assessment. Extent to which data quality requirements met. Unknown

Linkage between measurement endpoint

and benefical use or standard

EDLs are not linked to Beneficial Uses.

Utility of measure for judging if standards or uses are not attained EDLs are not an applicable guideline for assessment of beneficial use protection.

Water Body-specific Information N/A

Data used to assess water quality N/A

Spatial representation N/A

Temporal representation N/A

N/A Data type

Use of standard method N/A

Potential Source(s) of Pollutant N/A

Alternative Enforceable Program

RWQCB Recommendation Delist because the original listing was based on EDLs which no longer

represent valid assessment guidelines.

SWRCB Staff Recommendation After reviewing the available data and information and the RWQCB

> documentation for this recommendation, SWRCB staff concluded that the water body should be removed from the section 303(d) list because the applied EDL guidelines are not a valid tool to interpret narrative water

Region 4: Wheeler Creek-Todd Barranca TDS

Water Body Wheeler Creek-Todd Barranca

Stressor/Media/Beneficial Use TDS/Water/Agriculture

Data quality assessment. Extent to which data quality requirements met.

United Water Conservation District

Linkage between measurement endpoint and benefical use or standard

TDS WQO is linked to Agriculture.

Utility of measure for judging if standards or uses are not attained

WQO is applicable to Agriculture.

Water Body-specific Information Data 2-5 years old, samples collected at site.

Data used to assess water quality 12 water samples, 12 sample exceeding.

Spatial representation Limited.

Temporal representation Quarterly sampling events.

Data type Numerical data.

Use of standard methodUnited Water Conservation District methods.

Potential Source(s) of Pollutant Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of season and age of the data were considered.

Region 4: Wheeler Creek-Todd Barranca Sulfate

Water Body Wheeler Creek-Todd Barranca

Stressor/Media/Beneficial Use Sulfate/Water/Agriculture

Data quality assessment. Extent to which data quality requirements met.

United Water Conservation District

Linkage between measurement endpoint and benefical use or standard

Sulfate WQO is linked to Agriculture.

Utility of measure for judging if standards or uses are not attained

WQO is applicable the Agriculture.

Water Body-specific Information Data 2-5 years old, samples collected at site.

Data used to assess water quality 12 water samples, 11 sample exceeding.

Spatial representation Limited.

Temporal representation Quarterly sampling events.

Data type Numerical data.

Use of standard methodUnited Water Conservation District methods.

Potential Source(s) of Pollutant Nonpoint sources.

Alternative Enforceable Program

RWQCB Recommendation List.

SWRCB Staff Recommendation

After reviewing the available data and information and the RWQCB documentation for this recommendation, SWRCB staff conclude that the water body should be placed on the section 303(d) list because applicable water quality standards are exceeded and a pollutant contributes to or causes the problem.

This conclusion is based on the staff findings that:

- 1. The data is considered to be of adequate quality.
- 2. The data exhibited sufficient temporal coverage.
- 3. Beneficial uses have been established and apply to the water body.
- 4. Water quality standard used is applicable.
- 5. Data are numerical.
- 6. Standard methods were used.
- 7. Other water body information including the effects of season and age of the data were considered.



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